

# H&S

## RAKES



Innovators in the Manufacture  
of Agricultural and  
Commercial Equipment

**H&S HAS A MODEL TO FIT YOUR OPERATION**



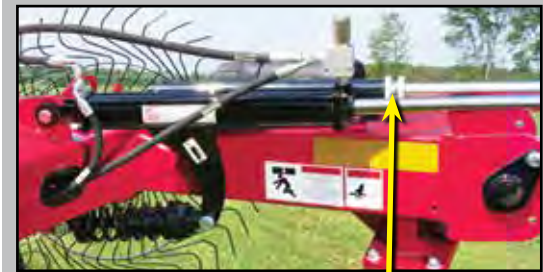
2200 AND 3200 SERIES ACTION RAKES

2200 SERIES  
HIGH CLEARANCE ACTION RAKES

3200 SERIES  
HIGH CLEARANCE ACTION RAKES

Shown with optional tandem axles

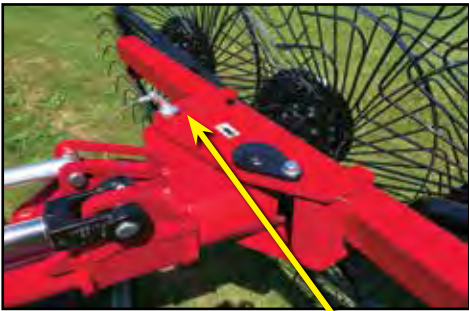
2200 SERIES FEATURES



Adjusting each of the arm rod assembly pressure ring nuts sets the proper spring pressure on each rake arm, allowing for proper rake wheel down pressure.



Rake wheel pivots also provide additional ground flexibility on ALL 2200 and 3200 series rakes.

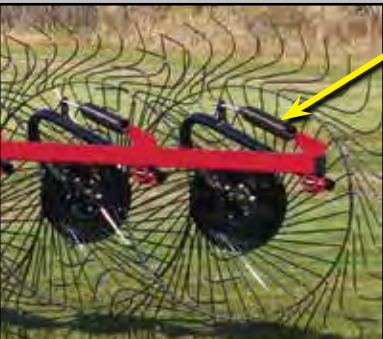


There are multiple width adjustments on the wheel rake beam for setting the windrow width. Just place the pin in the hole that optimizes windrow size for ALL 2200 and 3200 series models.

3200 SERIES FEATURES



Adjusting the arm rod assembly ring nuts of each rake arm sets the amount of down pressure on each rake beam.



The spring suspension on each 60" rake wheel allows it to float independently over the ground. Down pressure for each 60" rake wheel can be also be adjusted independently by the rod nuts on each rake arm/spring assembly.

MODEL - ACTION RAKES	2208	2210	2212
NUMBER OF RAKE WHEELS	8	10	12
WHEEL DIAMETER	60"	60"	60"
TEETH PER WHEEL	40	40	40
TOOTH DIAMETER	7.5 MM	7.5 MM	7.5 MM
RAKING WHEEL HUBS	TAPERED BEARINGS	TAPERED BEARINGS	TAPERED BEARINGS
TRANSPORT WIDTH/SET-UP	12'	12'	12'
TRANSPORT WIDTH W/RAKE WHEELS REMOVED	8' 6"	8' 6"	8' 6"
TRANSPORT LENGTH	19' 1"	20' 5"	21' 3"
RAKING WIDTH	16' 6" - 17' 8"	18' 5" - 21'	21' - 24' 4"
WINDROW WIDTH ADJUSTMENT(DEPENDS ON RAKING WIDTH)	4' 5" - 6' 10"	3' 3" - 7' 3"	2' 10" - 7' 3"
NUMBER OF RAKING POSITIONS	6	6 NARROW/6 WIDE	6 NARROW/6 WIDE
GROUND PRESSURE RAKE WHEEL ADJUSTMENT	ADJUSTABLE PRESSURE ROD ASSEMBLY W/TENSION SPRING		
REQUIRED TRACTOR HYDRAULIC REMOTES	2 HOSE / 1 REMOTE	2 HOSE / 1 REMOTE	2 HOSE / 1 REMOTE
REQUIRED HYDRAULICS	7 GPM	7 GPM	7 GPM
REQUIRED HYDRAULIC PRESSURE	1,875 PSI	1,875 PSI	1,875 PSI
RAKE WHEEL HUBS	TAPERED BEARING	TAPERED BEARING	TAPERED BEARING
TRANSPORT WHEELS	(2) ST205/75R15	(2) ST205/75R15	(2) ST205/75R15
HITCH JACK	STANDARD	STANDARD	STANDARD
WEIGHT	1,437#	1,633#	1,794#
CENTER KICKER WHEEL	OPTIONAL	OPTIONAL	OPTIONAL
ONE-SIDED RAKING KIT	OPTIONAL	OPTIONAL	OPTIONAL
WINDROW WIDTH TURNBUCKLE KIT	N/A	OPTIONAL	OPTIONAL
HIGHWAY LIGHTING KIT	OPTIONAL	OPTIONAL	OPTIONAL

The 2200 & 3200 series **ACTION** rakes backbone and wing design allows the uniform release of crop when raised for a finished windrow!



Rake in transport position with optional Center Kicker Wheel. 2200 series rake shown.

OPTIONAL FEATURES



Raking with one side can be accomplished with the optional **One-Side Raking Kit**. The kit allows you to manually close off a hydraulic valve on either side when the rake is in the transport position.

The **Turnbuckle Kit** includes two turnbuckles that can be installed on each rake arm to adjust the windrow raking width to one of the two windrow width holes. *Not available on the 2208 model.*



MODEL - ACTION RAKES	3210	3212
NUMBER OF RAKE WHEELS	10	12
WHEEL DIAMETER	60"	60"
TEETH PER WHEEL	40	40
TOOTH DIAMETER	7.5 MM	7.5 MM
RAKING WHEEL HUBS	TAPERED BEARINGS	TAPERED BEARINGS
TRANSPORT WIDTH/SET-UP	12'	12'
TRANSPORT WIDTH W/RAKE WHEELS REMOVED	8' 6"	8' 6"
TRANSPORT LENGTH	20' 5"	21' 3"
RAKING WIDTH	18' 5" - 21'	21' - 24' 4"
WINDROW WIDTH ADJUSTMENT (DEPENDS ON RAKING WIDTH)	3' 3" - 7' 3"	2' 10" - 7' 3"
NUMBER OF RAKING POSITIONS	6 NARROW/6 WIDE	6 NARROW/6 WIDE
GROUND PRESSURE RAKE WHEEL ADJUSTMENT	ADJUSTABLE PRESSURE ROD ASSEMBLY W/ INDEPENDENT WHEEL FLOATATION	
REQUIRED TRACTOR HYDRAULIC REMOTES	2 HOSE / 1 REMOTE	2 HOSE / 1 REMOTE
REQUIRED HYDRAULICS	7 GPM	7 GPM
REQUIRED HYDRAULIC PRESSURE	1,875 PSI	1,875 PSI
RAKE WHEEL HUBS	TAPERED BEARING	TAPERED BEARING
TRANSPORT WHEELS	(2) ST205/75R15	(2) ST205/75R15
HITCH JACK	STANDARD	STANDARD
WEIGHT	1,878#	2,062#
CENTER KICKER WHEEL	OPTIONAL	OPTIONAL
OSCILLATING TANDEM AXLE	OPTIONAL	OPTIONAL
ONE-SIDED RAKING KIT	OPTIONAL	OPTIONAL
WINDROW WIDTH TURNBUCKLE KIT	OPTIONAL	OPTIONAL
HIGHWAY LIGHTING KIT	OPTIONAL	OPTIONAL



4100 SERIES *HI-CAPACITY* BI-FOLD WHEEL RAKES

3 WHEEL SIZES  
TO CHOOSE FROM!  
12, 14, or 16

Adjustable hitch

STRONG AND  
DEPENDABLE

The H&S *HI-CAPACITY* bi-fold rakes have the raking wheels positioned ahead of the rake arms, main frame beams, and transport wheels. Coupled with a high and wide end of frame, there are no hang-up points or restrictions when raking the heaviest of hay crops.

The *HI-CAPACITY* rake opens and closes hydraulically, rake wheels are lowered and raised hydraulically, and the rake wheels float independently.

Rake arms on the *HI-CAPACITY* rakes feature bearings on each end of the arm for long life, smooth operation, and less wear than rakes with bushings.

MODEL	4112	4114	4116
NUMBER OF WHEELS	12	14	16
WHEEL DIAMETER	55"	55"	55"
TEETH PER WHEEL	40	40	40
TOOTH DIAMETER	7 MM	7 MM	7 MM
TRANSPORT WIDTH	8' 6"	8' 10"	8' 10"
TRANSPORT LENGTH	24' 6"	27' 3"	30' 3"
WINDROW WIDTH ADJUSTMENT	38"- 58"	APPROX. 46"- 66"	APPROX. 46"- 66"
RAKING WIDTH	HYD. SET UP TO 24'	HYD. SET UP TO 28'	HYD. SET UP TO 32'
RAKING WHEEL HUBS	TAPERED BEARINGS	BALL BEARINGS	BALL BEARINGS
WING FLEX	3' UP OR DOWN	3' UP OR DOWN	3' UP OR DOWN
NUMBER OF TRANSPORT WHLS.	4	6	6
HITCH JACK	STANDARD	STANDARD	STANDARD
REAR TRANSPORT WHEELS	15"	15"	15"
FRONT GAUGE WHEELS	15"	15"	15"
WEIGHT	3500 LBS.	3800 LBS.	4200 LBS.
DUAL CENTER KICKER WHEELS	OPTIONAL	OPTIONAL	OPTIONAL
55" RAKE WHEEL WIND BOARDS	OPTIONAL	OPTIONAL	OPTIONAL
TRANSPORT LIGHTS W/CORD	OPTIONAL	OPTIONAL	OPTIONAL
SAFETY CHAIN	OPTIONAL	OPTIONAL	OPTIONAL

An adjustable brake band on top of the front spindle keeps the front gauge wheels from spinning in rough conditions.



The adjustment for the ground pressure on the rake wheels allows the operator to fine-tune the *HI-CAPACITY* wheel rakes to fit varying conditions.



Limited oscillating offset tandem transport wheels assure a smooth, level ride, even over irrigation tracks. Standard on the 14 & 16-wheel *HI-CAPACITY*, optional on the 12-wheel *HI-CAPACITY*.



2-wheel center kicker assembly

OPTIONAL FEATURES

- Transport Lighting
- Safety Chain
- An optional set of 15" front gauge wheels for the 14 and 16-wheel *HI-CAPACITY* rakes helps improve float over irrigation tracks or rough ground.



Optional rake wheel wind panel kits



5100 SERIES *HI-CAPACITY* BI-FOLD WHEEL RAKES

LARGE 60" DIAMETER RAKE WHEELS  
TURN SLOWER FOR LESS WEAR AND  
DELIVER MORE CAPACITY.

H&S 5100 series *HI-CAPACITY* bi-fold rakes have the raking wheels positioned ahead of the rake arms, main frame beams, and transport wheels. Coupled with a high and wide end of frame, there are no hang-up points or restrictions when raking the heaviest of hay crops.

• The standard wrap-a-round gauge wheels give added support to the rake beams.

• Adjustable height hitch

• A brake band on the 4 front gauge wheels can be easily adjusted to field conditions.

• Limited oscillating offset tandem transport wheels assure a smooth, level ride.

• A large diameter rake wheel hub is used for added strength to the rake wheel dish.

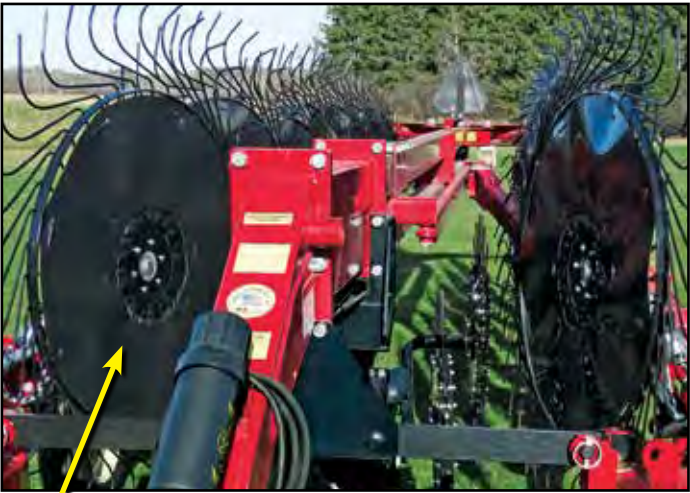
• Independent rake wheel suspension allows the rake wheels to follow the contour of the ground, and low maintenance "Bee Hive" style springs support the large 60" rake wheels.



• Rake arms feature 2 ball bearings on each end of the arm for long life, smooth operation, and less wear than rakes with bushings.



• Adjustment for the ground pressure on the rake wheels allows the operator to fine-tune the 5114 and 5116 wheel rakes to fit varying conditions.

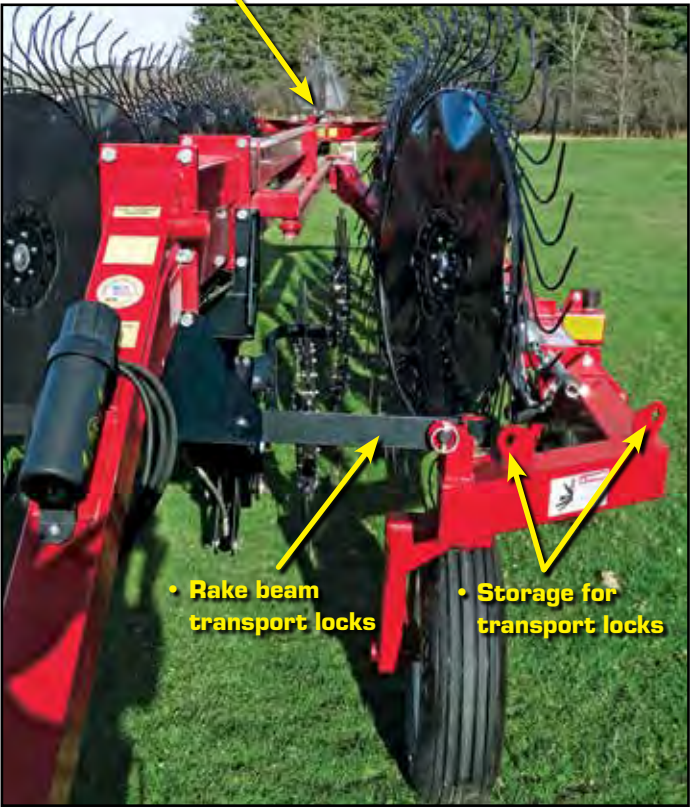


• Rake wheel wind panels are standard on both models.

• The windrow width adjustment is done with a hand crank and adjusts windrows from 36" to 60" in width.

• Independent articulated rake beams have the flexibility to flex 3' up or 3' down.

• Setting the **spring loaded stop** allows you to set pre-determined raking widths up to 28' on the 5114 and 32' on the 5116. Raking widths can be hydraulically adjusted in any position up to the pre-determined raking width.



• Rake beam transport locks

• Storage for transport locks

MODEL	5114	5116
NUMBER OF WHEELS	14	16
WHEEL DIAMETER	60"	60"
TEETH PER WHEEL	40	40
TOOTH DIAMETER	7.5 MM	7.5 MM
TRANSPORT WIDTH	8' 10"	8' 10"
TRANSPORT LENGTH	27' 3"	30' 3"
WINDROW WIDTH ADJUSTMENT	APPROX. 46"- 66"	APPROX. 46"- 66"
RAKING WIDTH	HYD. SET UP TO 28'	HYD. SET UP TO 32'
RAKING WHEEL HUBS	BALL BEARINGS	BALL BEARINGS
60" RAKE WHEEL WIND BOARDS	STANDARD	STANDARD
WING FLEX	3' UP OR DOWN	3' UP OR DOWN
NUMBER OF TRANSPORT WHEELS	8	8
HITCH JACK	STANDARD	STANDARD
GAUGE WHEELS	15"	15"
TRANSPORT WHEELS	15"	15"
WEIGHT	N/A	N/A
DUAL CENTER KICKER WHEELS	OPTIONAL	OPTIONAL
TRANSPORT LIGHTING W/CORD	OPTIONAL	OPTIONAL
SAFETY CHAIN	OPTIONAL	OPTIONAL



A 2-wheel center kicker assembly is optional for the *HI-CAPACITY* rakes.



# 6100 SERIES *FLEX-FRAME* RAKES

The H&S *FLEX-FRAME* rake features the raking wheels positioned ahead of the rake arms, main frame beams, and transport wheels. Coupled with a high and wide end of frame, there are no hang-up points or restrictions when raking the heaviest of hay crops.

• Adjustable height hitch



• The rake arms feature 2 roller bearings on each end of the arm for long life, smooth operation, and less wear than rakes with bushings.

• Low maintenance "Bee Hive" style springs support the large 60" rake wheels.

• Independent rake wheel suspension allows the rake wheels to follow the contour of the ground.



• The U-joint/ball joint design of the rake beam arms allows the *FLEX-FRAME* rakes to be the most versatile on the market.

**ADJUSTABLE BRAKE BANDS** on the front gauge wheels can be easily adjusted to field conditions or transport.

## OPTIONAL FEATURES



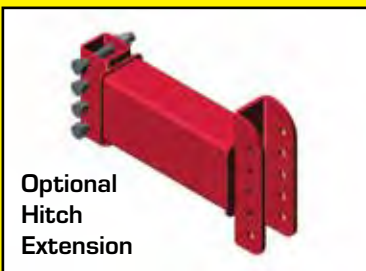
• Optional hydraulic rear width adjustment.



• An optional 3-wheel center kicker is available for all models.

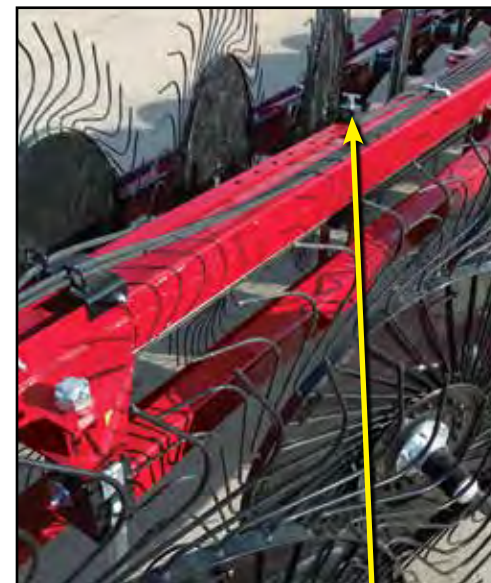


2-Point Hitch Option

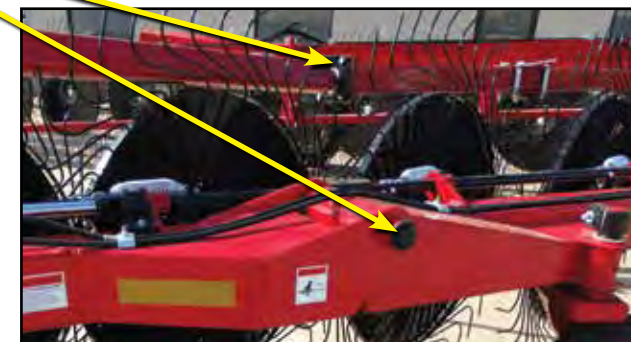


Optional Hitch Extension

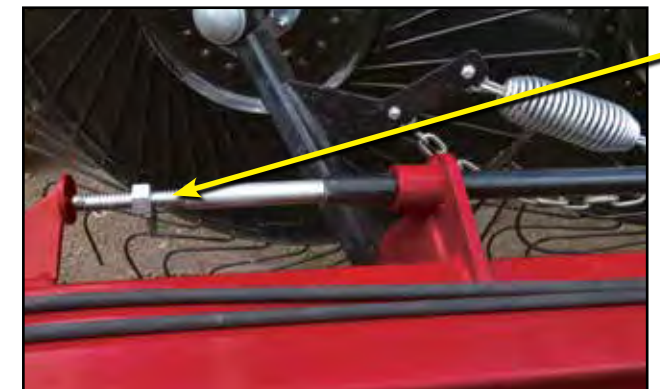
MODEL	6116	6118	6120	6122
NUMBER OF WHEELS	16	18	20	22
WHEEL DIAMETER	60"	60"	60"	60"
TEETH PER WHEEL	40	40	40	40
TOOTH DIAMETER	7.5 MM	7.5 MM	7.5 MM	7.5 MM
RAKING WHEEL HUBS	BALL BEARINGS	BALL BEARINGS	BALL BEARINGS	BALL BEARINGS
RAKE WHEEL ANTI-WRAP SHIELDS	STANDARD	STANDARD	STANDARD	STANDARD
TRANSPORT LENGTH - APPROX.	32' 7"	34' 8"	37' 6"	40' 6"
TRANSPORT WIDTH	10' 6"		11' 6"	
TRANSPORT HEIGHT/TRANSPORT	80" W/SMV SIGN		N/A	
FRONT GAUGE WHEELS	4 - 9.5L X 15		4 - 11L X 15	
STANDARD REAR TRANSPORT WHEEL	2 - 9.5L X 15		2 - 11L X 15	
OPT. TANDEM REAR TRANSPORT WHLS.	4 - 9.5L X 15		4 - 11L X 15	
MAXIMUM RAKE WIDTH - APPROX.	32'	35' 6"	38' 6"	41' 6"
WINDROW WIDTH ADJUSTMENT	3' - 5'	3' - 5'	3' - 5'	3' - 5'
NUMBER OF RAKING POSITIONS	6	6	6	6
RAKE WHEEL WIND PANELS	STANDARD	STANDARD	STANDARD	STANDARD
HITCH JACK	STANDARD	STANDARD	STANDARD	STANDARD
WEIGHT	5,750 LBS	7,894 LBS	8,224 LBS	8,521 LBS
CENTER KICKER WHEEL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
TRANSPORT LIGHTING	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
WHEEL RAKE SUSPENSION	INDEPENDENT "BEE HIVE" SPRING			
GROUND PRESSURE RAKE WHL. ADJUST	NUT/THREAD ROD FOR FINE TUNING			
HYDRAULIC REAR WINDROW ADJUST	OPTIONAL - ADDITIONAL REMOTE NEEDED			
HYDRAULIC REQUIREMENTS	1 DOUBLE ACTING CYL. FOR FOLDING - 1 DOUBLE ACTING CYL. FOR RAKE WHEEL LIFT			



• Moving the spring loaded **T-pin** allows you to set predetermined raking widths. Raking widths can be hydraulically adjusted up to the predetermined raking width.



• A limited oscillating offset tandem transport wheels assure a smooth, level ride, even over irrigation tracks.



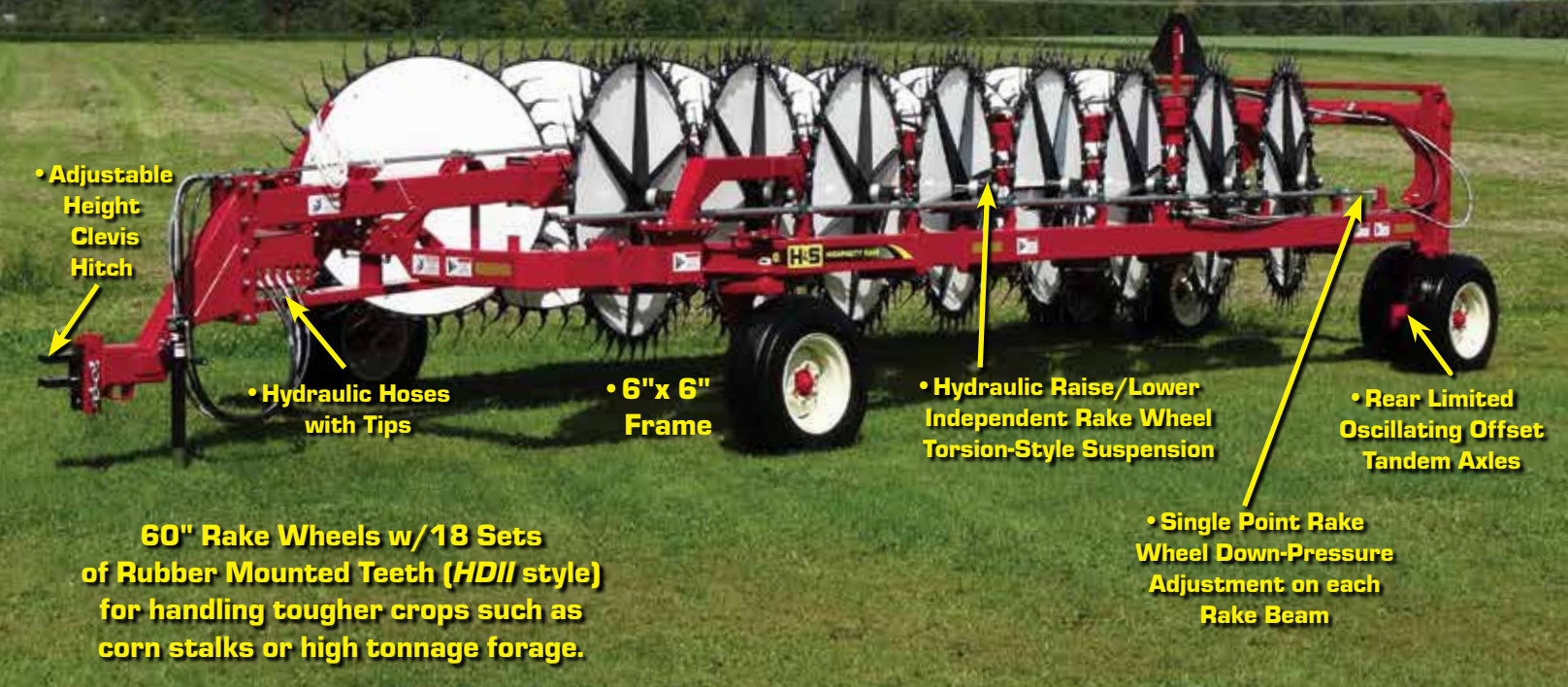
• Adjustable screws on each rake beam allows the operator to fine-tune the rake wheel down pressure to fit varying conditions.





## H&S HC7116 WHEEL RAKE

AVAILABLE IN  
16 & 18-WHEEL MODELS



**60" Rake Wheels w/18 Sets of Rubber Mounted Teeth (HDII style) for handling tougher crops such as corn stalks or high tonnage forage.**

MODEL	HC7116
NUMBER OF WHEELS	16 - STANDARD / 18 W/OPTIONAL 2 WHEEL EXT.
WHEEL DIAMETER	60"
TEETH PER WHEEL	18 SETS OF 2 = 36
RAKING WHEEL HUBS	TAPERED BEARINGS
RAKE WHEEL SUSPENSION	INDEPENDENT RAKE WHEEL SUSPENSION W/BUFFERED COMPRESSION SPRING SYSTEM
NUMBER OF RAKING POSITIONS	7
GROUND PRESSURE RAKE WHL. ADJUST.	NUT/THREADED ROD FOR FINE-TUNING
WINDROW WIDTH ADJUSTMENT	HYDRAULIC
RAKE WHEEL WIND PANELS	STANDARD
HITCH JACK	STANDARD
HYDRAULIC REQUIREMENTS	1 DOUBLE ACTING CYLINDER FOR FOLDING 1 DOUBLE ACTING CYLINDER FOR RAKE WHEEL LIFT
FRONT GAUGE WHEELS	2 - IF240/80R15IMP
TANEM REAR TRANSPORT WHEELS	4 - IF240/80R15IMP
HYDRAULIC REAR WINDOW ADJUST.	STANDARD
SET OF (2) FRONT CASTER WHEELS	OPTIONAL
(2) FRONT WHEEL ADD-ON KIT	OPTIONAL
CENTER KICKER WHEEL	OPTIONAL
HIGHWAY & WORK LIGHTING	OPTIONAL
2- POINT HITCH	OPTIONAL

### OPTIONAL FEATURES

Shown is the optional 3-wheel Center Kicker.



A 2-Point Hitch Option is available for easier turning.



Break stalks in the area that the corn stalk windrow is being placed to minimize baler tooth wear and breakage with the **"INTERRUPTER 8000"**.



Rear Windrow Width Adjustment is done Hydraulically



Disc-Style Brakes on each Caster Wheel

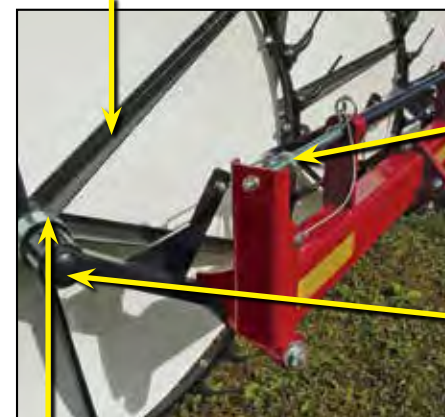


Manual Transport Locks are standard for each rake beam.

**4 SIZES TO CHOOSE FROM!  
17, 18, 19 or 20 WHEELS**



- 6 heavy angle iron gussets on each wheel for superior strength.



- Adjustable rake wheel ground pressure.

- Heavy-duty tapered roller bearings are used in each **HDII** rake arm.

- Standard anti-wrap hay guards

### Patented Compression Springs



- Compression springs with a rubber dampener on the inside allow each rake wheel to roll smoothly over the terrain.

### Tractor Mounted Control Box



The rake wheels may be lifted independently left or right, or both at the same time, with the master switch.

NUMBER OF WHLS	17	18	19	20
WHEEL DIAMETER	60"	60"	60"	60"
TEETH PER WHEEL	18 SETS OF 2 = 36	18 SETS OF 2 = 36	18 SETS OF 2 = 36	18 SETS OF 2 = 36
TEETH	RUBBER MOUNTED IN A SET OF 2	RUBBER MOUNTED IN A SET OF 2	RUBBER MOUNTED IN A SET OF 2	RUBBER MOUNTED IN A SET OF 2
TRANSPORT WIDTH	12' 3"	13' 3"	12' 3"	13' 3"
TRANSPORT LENGTH	28' 3"	30' 9"	30' 4"	32' 9"
MAXIMUM RAKING WIDTH	30' 3"	31' 3"	33' 3"	34' 3"
RAKE WHEEL HUBS	TAPERED BEARINGS	TAPERED BEARINGS	TAPERED BEARINGS	TAPERED BEARINGS
HITCH JACK	STANDARD	STANDARD	STANDARD	STANDARD
TAIL & WORK LIGHTS	STANDARD	STANDARD	STANDARD	STANDARD
TIRES	IF240/80R15IMP	IF240/80R15IMP	IF240/80R15IMP	IF240/80R15IMP



***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 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.

Models and specifications are subject to change without prior notice.

1/23 2M



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