

#### **Hyrdro Trim Drive presentation**

Section 2, Pages 31 - 50

This printed presentation from the Hesston Corporation introduces the features and capabilities of the 600 Hydro Trim Drive. This publication funded by the National Historical Publications and Records Commission through the Kansas State Historical Records Advisory Board.

**Creator: Hesston Corporation** 

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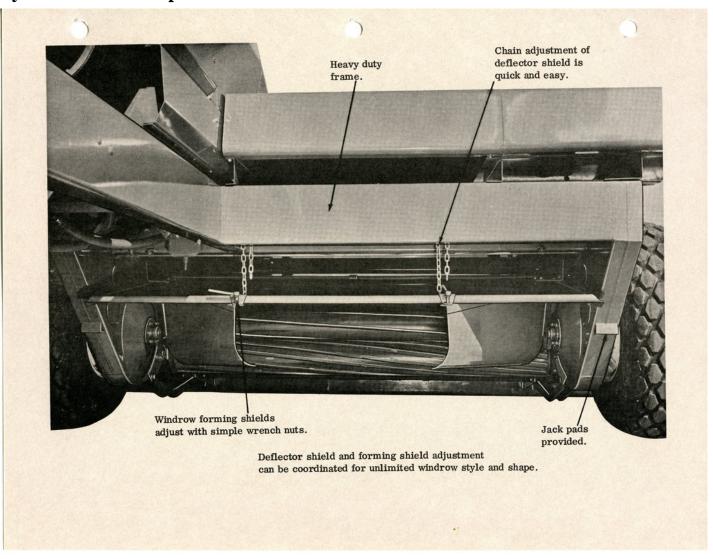
# KANSAS HISTORICAL SOCIETY



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# ADJUSTS EASILY FOR WINDROWS OR AN 81" SWATH - WITHOUT TOOLS!



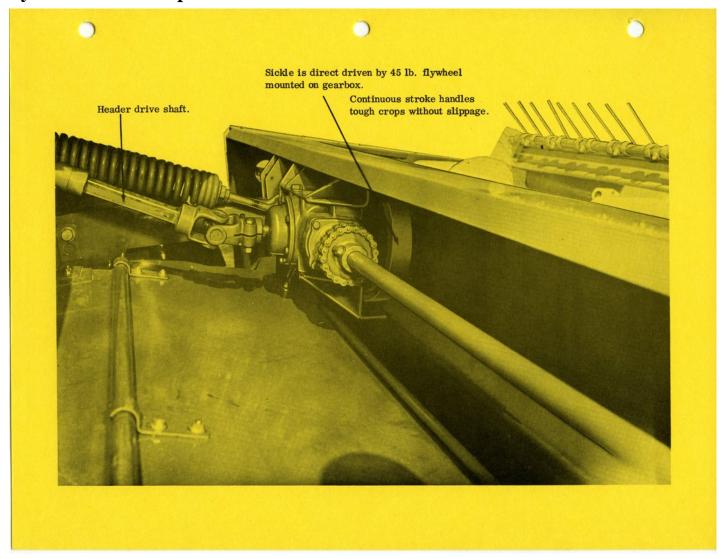




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# POWER SHAFT DRIVES HEADER GEARBOX





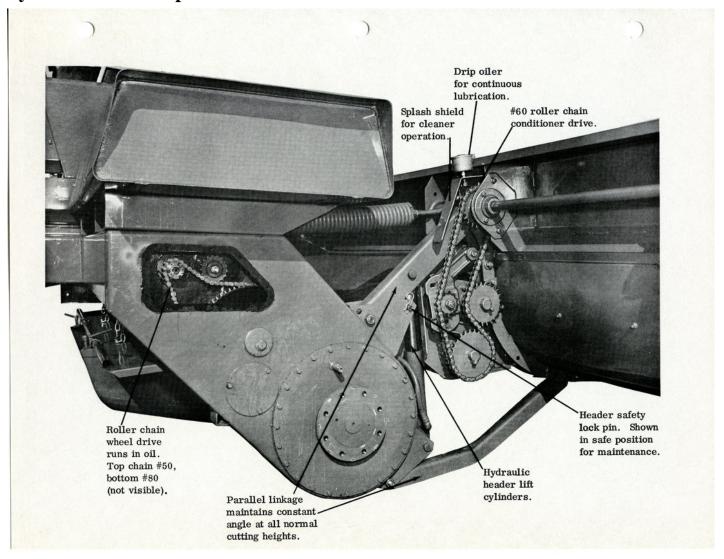


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# PARALLEL LINKAGE permits header operation from 4" below wheel level to 22" above.

Guard angle remains constant at all normal cutting heights.





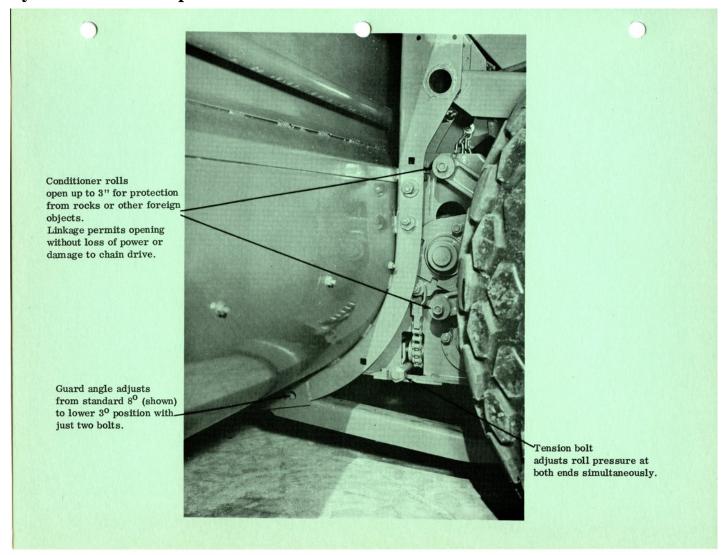


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#### **CONDITIONER ROLL PRESSURE**

adjusts with just one tension bolt.





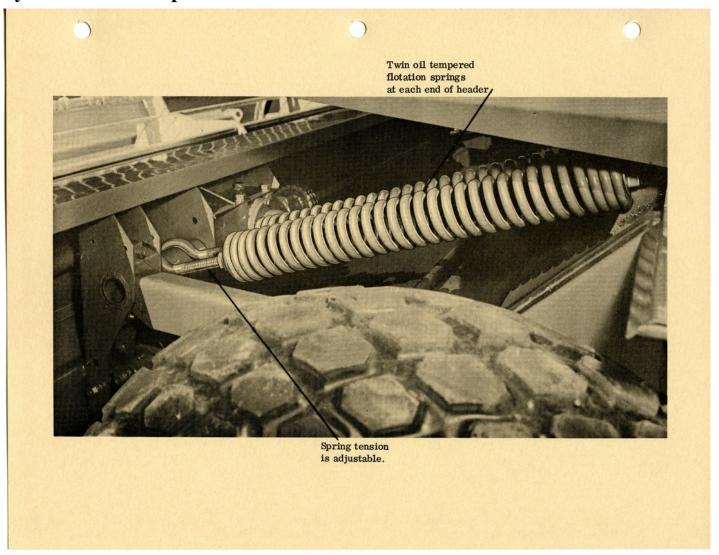


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#### RADIAL FLOTATION

Permits each end of header to float independently to clear obstructions anywhere along header.





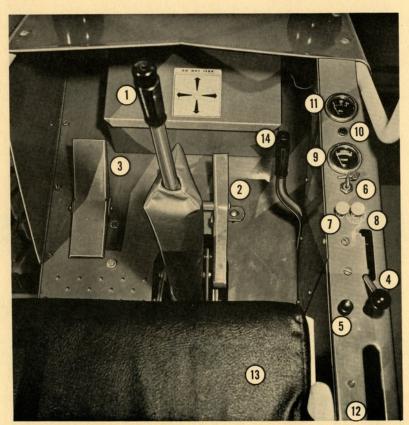


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#### ALL

Instruments and Controls are simple and within easy reach.

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- 1. HYDRO COMMANDER
- 2. HYDRO COMMANDER Neutral Lock
- 3. Hydraulic Header Lift Control
- 4. Throttle (Idle or Cruise Settings Only)
- 5. Choke
- 6. Ignition Lock and Starter
- 7. Light Switch
- 8. Safety Flasher Switch
- 9. Temperature Gauge
- 10. Generator Light
- 11. Engine Oil Pressure
- 12. Header Clutch
- 13. Bostrom Comfortable Seat
- 14. Speed Range Control



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#### HESSTON MODEL 600

# THE MOST ADVANCED HAYING MACHINE ON THE MARKET

#### AS EASY TO OPERATE AS IT IS TO LOOK AT!

50% to 100% MORE HEAVY CROP CAPACITY than windrowers with shorter conditioner rolls.







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#### **AVAILABILITY**

HESSTON 600

IH 375

NOW!

?



	Hesston 600	THE STS	Hesston Advantage	
Hydro-Static Controls	(1) Hydro-Commander. Controls Direction, Speed, Braking	(4) Steering Wheel; Forward-reverse Control lever; Brake Pedals (2)	Simpler, Safer, More precision control, One hand operated, More production, Less operator effort.	
Conditioner: Width Type	81" Machined Steel Bars and Molded Rubber	Short, Exact width N. A. Steel V-Bar and Rubber	Widest conditioner in industry. 50-100% more heavy crop capacity. Better conditioning in tender and tough stemmed crops.	
Engine: Gas Diesel	Ford 172 - Water Cooled Ford 172D - Water Cooled	IH C-153 Water Cooled N/A	More horsepower in gas. Diesel available as option.	
Fuel Tank	38 Gal.	28 Gal.	Extra 10 gallons gives over 3 hours more production before refueling.	
Turning Radius	"0" (complete spin turns)	Pivot Turns only (steering, on rear wheels)	More maneuverability in tight spots. Faste because of one lever.	
Speed Range Forward	0-7 (Field) 0-14 (Road)	0-12.2	Higher road speed.	
Auger Speed	160 (180 std) 210 r.p.m.	(Single Auger) 210 r.p.m.	Different auger speeds available for tough conditions.	
Skid Shoes	Std.	Extra	More cutterbar protection.	
Cab	Available (extra)	N/A	More customer satisfaction and more customers.	
Weight: 10'	5, 750	6,680	Heavier weight does not necessarily mean	
12' 14'	5,980 6,210	6,850 * 7,200 with single auger; 7,320 dual auger		
Tire Sizes: Drive Rear	(2) 13.5 x 16 high flotation (1) 7.60 x 15	(2) 12.4 x 11-24 (2) 7.60 x 15	Larger tires with lighter weight means better flotation, less crop damage, more tire safety.	
Tread Width	106"	96"	Wider tread provides more stability for 12' & 14' header widths.	
Wheel Base	110"	113"	More maneuverable.	
Overall Width 10' Header	132 1/2"	139"	Narrower widths for better maneuverability	
12' Header 14' Header	156 1/2" 180 1/2"	163" 187"	narrow gates, bridges, etc.	
Reel	Pick-up Reel Std.	Low Profile - Pick-up Reel (extra cost)	Steel pick-up reel - Standard - Hume pick	
Bats Speed	4 Std - 6 Max. (extra) 44-70 r.p.m.	4 5 59-77 (single auger)	up reel for I. H. Costs more money than Low Profile.	
Sickle Drive	Swaybar, Direct Driven by 45 lb. flywheel	Belt	More positive sickle drive. Less slippage in tough crops.	
Sickle Stroke	3 1/4"	3 1/4"		
Knife Angle	30 - 80	6º - 12º		
		*NOTE: In 1967, I.H. Single Auger Header : 10' and 12' not available.	available only in 14' width.	

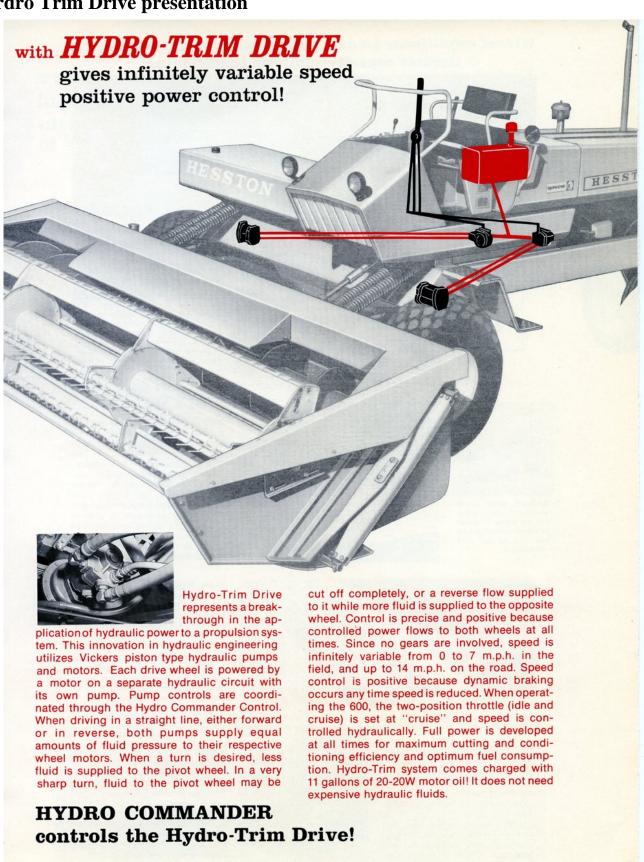








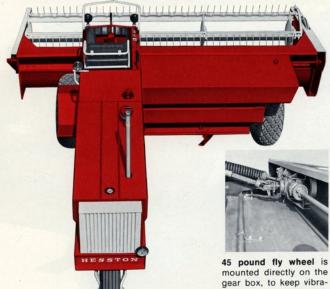






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#### HESSTON 600-powered for capacity, designed for visibility

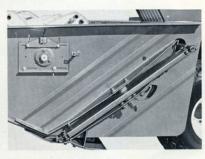


Rear mounted engine gives excellent balance and visibility. Ford, 4 cylinder, 172 cu. in. 56 hp. gasoline or 55 hp. diesel is available. Both give a smooth flow of adequate power for fast ground speed and proper conditioning. Power band belt drives and gives slip protection to primary drive for sickle, reel and conditioner.

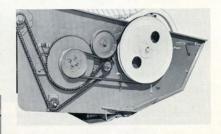
45 pound fly wheel is mounted directly on the gear box, to keep vibration and bearing wear at a minimum. Fly wheel weight assures that power flow to the swaybar and sickle is smooth and steady. Direct drive permits sickle to handle tough crops without slipping.

Reel speed is adjustable from 44 to 70 r.p.m. Speed is adjustable with spacers and additional sheave provided as standard equipment. Sprocket of primary chain drive can be changed to speed up both folding tine auger and reel. Auger is chain driven and protected by a built-in slip clutch. 3" horizontal and vertical reel adjustment

provides proper feeding of crop to auger. Operator visibility is excellent. With the engine mounted at the rear and the fuel tank above the right leg of the L shaped frame, windrow formation can be checked with ease. Big 38 gallon fuel tank capacity permits long runs without refilling.



Swaybar and forged ball joints transfer power smoothly from flywheel to the sickle. Sickle sections are chrome alloy plated to give long life and retain sharpness longer. They run at 720 C.P.M. in double, forged guards. Hesston's coordinated application of power to design-perfected sickle is the reason why the 600 cuts efficiently in tender alfalfa, tough sorghum-sudans or wiry native grasses. 22" wide hardened skid shoes are standard. Gauge wheels are extra equipment. Solid rubber wheels adjust for stubble heights up to 6". Pneumatic wheels for 12' and 14' headers adjust for leaving stubble up to 10".



#### SPECIFICATIONS/HESSTON 600

Because of Hesston's	constant effort	s to produce	better farm equip	ment for its customers, specifications are subject to change without notice.	
			14'	Tine shaft bearings nylon – relubricatable	
Width of cut	120"	144"		Fore/aft adjustment 3	
Overall width	1321/2"		1801/2"	Vertical adjustment 3"	
Approximate weight (lbs.				Speed adjustment 44 to 70 r.p.m.	
(inc. weights if req.)		5.980	6,210	Electrical system	
Tire sizes: Drive (2)	13.5	x 16 High	Flotation	Guards double: steel (forged)	
Rear (1)			7.60 x 15	Engine make: Ford Gasoline Ford Diesel	
Tread width			106"	Model 172 172D	
Wheel base			110"	Model         172         172D           Horsepower @ 2100 rpm         56         55           Displacement, cu. in.         172         172	
Turning radius			0"	Displacement, cu. in. 172 172	
Transmission		Hy	drostatic	Fuel tank	
Speed range	0 to	7 m.p.h. fie	ld range;	Hydrostatic system cap 11 U.S. gallons	
	0 to 1	4 m.p.h. ro	ad range	Amber safety flasher light SAE & ASAE Approved	
Final drives		80 ro	ller chain	Conditioner:	
Header auger	. adjustable	e safety sl	ip clutch,	Upper roll 81", 61/2" dia. molded rubber	
				Lower roll 81", 7%" dia. steel bar	
Header range	4 belov	w wheel le	vel to 22	Upper roll	
Sickle height from groun	d		1"	Lower roll	
Sickle speed		7	20 c.p.m.	Drive Chain	
Sickle stroke			31/4"	EXTRA AND/OR OPTIONAL EQUIPMENT: Lights.	
Reel: Number of bats				Header gauge wheels – hard rubber or pneumatic. Grain	
Spring steel tines.		. 7" long, 4	" spacing	windrowing kit. Cab. Pea Special - Special 10-ft. header	
Cam action se	aled relubri	catable ca	m rollers	designed for peas available.	
Factory Installed Cab is optional, Equipped with blowers to provide fresh air as you ride in dust-free comfort.					

HESSTON CORPORATION HESSTON, KANSAS 67206

LITHO IN U.S.A. H/S 600-466