

## Time better spent

### Harvest more acres per day with the T670 Combine

The T670 not only increases your productivity and efficiency, but also improves the quality of your grain and straw – and that's something you can rely on in every situation. The proven crop flow system doesn't bend or break your grain or straw and offers improved performance in all crops and all harvest conditions. The advanced threshing and cleaning systems now have the largest surface area of its kind on the market.

The T670 delivers up to 15% more capacity in wheat so you can work faster and more efficiently. And it comes ready to roll with precision ag technology.

Pair your T670 with a 700D HydraFloat™ Draper or 700FD HydraFlex™ Draper. The hydraulic height system on the 700D lets you increase pressure from the cab and the cutterbar will float over the ground without bulldozing.

The 28.5-ft unloading auger matches front end equipment for improved unloading logistics. On the separator, square edge bars have been replaced with rounded bars; eliminating the last three finger rows and extending wires to cover the same area.

An LED lighting package is available for the full machine. Plus, you can drain hydraulic, PTO and engine oil from ground level.





## Better performance and serviceability

The T670 features the largest cleaning shoe of its kind on the market, which enables ease of adjustment and delivers a more stable performance under changing harvesting conditions. With the Dyna-Flo™ Plus cleaning shoe, there are fewer manual and remote adjustments needed to be done by the operator. The new Dyna-Flo Plus cleaning system reduces tailings volume, particularly the amount of threshed grain in the tailings system.

The largest separator of its kind on the market features an unbeatably spacious separation area of 4m<sup>2</sup>. The unique multi-drum threshing system with crops flowing above the overshot beater ensures a consistent crop flow without sharp bends or abrupt changes in direction. For the new T670, we have further extended the threshing concave by 8 degrees, but kept the same angles and interconnection points to ensure excellent grain and straw quality.

Improved serviceability means more time for harvest. With fewer maintenance intervals and improved access to service and maintenance points, you'll spend less time on service tasks. Plus, the T670 comes with an optional, factory-installed air compressor. A 16-gal (60L) air reservoir with a 33-foot (10m) hose and 3 air quick coupler points helps keep your combine clean.



For easy changing between crops, one person can change the concave inserts through the stone trap, without removing the feederhouse.



**Fast crop conversion.** The time needed to reconfigure the T670 for optimum performance when changing crops has been reduced by the redesign of the T670 De-awning Plates (Front Concave Closure Plates) and concave Booster Bar. The three articulated plates close the front three concave bars for more intense threshing in hard-to-thresh crops and conditions where white caps are an issue. Positioning of the de-awning plates can be done quickly without the use of tools. Booster bar adjustment also can be done easily and quickly within minutes.

## PowerTech™ PSS Engine: Built to the highest standards

### Series turbochargers

Deliver higher power, more low-speed torque and engine responsiveness to meet varying load conditions.

### Variable geometry turbocharger (VGT)

Electronic controls open or close variable vanes depending on load and speed. Optimized airflow generates more boost allowing for quicker load response, increased low-rpm torque, better transient response and improved fluid efficiency.

### High-pressure fuel system

Enables precise control for start, duration and end of injection; controls fuel injection timing and provides higher injection pressures improving combustion, engine performance and reducing emissions.

### Catalyzed exhaust filter with DOC/DPF

Exhaust gases flow through an oxidation catalyst and filter trapping particulate matter. During normal operating conditions the engine's natural heat oxidizes the trapped particulate matter and cleans the filter.

### Cooled exhaust gas recirculation (EGR)

Precise amounts of cooled exhaust gases are mixed with incoming fresh air lowering combustion temperatures. This improves performance and lowers emissions.

### Selective catalytic reduction (SCR)

This technology utilizes a urea based additive referred to as diesel exhaust fluid (DEF). The ammonia in the urea mixes with engine exhaust gases in the SCR catalyst to reduce NOx. The optimization of cooled EGR and SCR allows John Deere machines to use less DEF than other FT4 solutions.

### Air-to-air aftercooling

Lowers the intake manifold air temperature promoting more efficient cooling and greater engine reliability.



S-Series 13.5 Liter Engine

S-Series 9.0 Liter Engine



S-SERIES COMBINES SPECIFICATIONS

MODEL	S760	S770	S780	S790	T670
<b>ENGINE</b>					
Type	John Deere 6 cyl. 9.0 L	John Deere 6-cyl. 9.0 L	John Deere 6-cyl 13.5 L	John Deere 6-cyl 13.5 L	John Deere 6 cyl. 9.0 L
Displacement (L/cu. in.)	9.0/548	9.0/548	13.5/824	13.5/824	548 cu. in (9.0L)
Fuel Capacity (L/gal.)	950/250	950/250	1250/330	1250/330	800/211
Cooling	Air-to-Air Aftercooler	Air-to-Air Aftercooler	Air-to-Air Aftercooler	Air-to-Air Aftercooler	Air-to-Air Aftercooler
Rated Speed (rpm)	2200	2200	2100	2100	2200
Rated Power (kW/hp) @ Rated Speed - T4	249/333	292/391	353/473	405/543	292/392
Power Boost @ Rated Speed (kW/hp) - T4	274/367	317/425	37/50	37/50	25/34
Rated Power @ -100 rpm Rated Speed (kW/hp) - T4	267/358	313/419	378/507	433/580	n/a
Peak Power @ -200 rpm Rated Speed (kW/hp) - T4	285/382	335/449*	402/540	460/617	n/a
Rated Power (kW/hp) @ Rated Speed ---NON-iT4	239/320	278/373	353/473	405/543	n/a
Power Boost @ Rated Speed (kW/hp) ---NON-iT4	25/34	25/34	37/50	23/31	n/a
Rated Power @ -100 rpm Rated Speed (kW/hp) ---NON-iT4	256/343	297/398	378/507	433/580	n/a
Peak Power @ -200 rpm Rated Speed (kW/hp) ---NON-iT4	272/365	317/425	402/540	458/614	n/a
*S670 Bulge Hp above 425Hp is limited by ECU timer					
<b>FEEDING</b>					
Drive Type	Fixed or Variable	Fixed or Variable or MultiSpeed	Fixed or MultiSpeed	Fixed or MultiSpeed	Fixed
Conveyor Chain Slat Type	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Under shot-slat
Width (mm/in.)	1397/55	1397/55	1397/55	1397/55	--
Length (mm/in.)	1727/68	1727/68	1727/68	1727/68	1850/73
Feed Accelerator, Stone Trap (FAST)	Standard	Standard	Standard	Standard	Standard
Reverser	Standard	Standard	Standard	Standard	Standard
<b>THRESHING/SEPARATING</b>					
Separator Type	Rotary	Rotary	Rotary	Rotary	Multi Drum/Straw Walker
Rotor Length (mm/in.)	3124/123	3124/123	3124/123	3124/123	--
Rotor Diameter (mm/in.)	762/30	762/30	762/30	762/30	--
Rotor Speed Range (rpm)	210-1000	210-1000	210-1000	210-1000	220-990
Concave Area (m <sup>2</sup> /in. <sup>2</sup> )	1.1/1705	1.1/1705	1.1/1705	1.1/1705	1.35/2093
Separating Area (m <sup>2</sup> /in. <sup>2</sup> )	1.54/2390	1.54/2390	1.54/2390	1.54/2390	4.0/6200
Discharge Grate Area (m <sup>2</sup> /in. <sup>2</sup> )	0.36/555	0.36/555	0.45/698	0.45/698	n/a
<b>CLEANING</b>					
Front Chaffer (m <sup>2</sup> /in. <sup>2</sup> )	0.5/801	0.5/801	0.5/801	0.5/801	0.6/930
Front Chaffer Extension (m <sup>2</sup> /in. <sup>2</sup> )	N/A	N/A	0.8/1224	0.8/1224	--
Chaffer (m <sup>2</sup> /in. <sup>2</sup> )	2.5/3824	2.5/3824	2.5/3824	2.5/3824	3.06/9393
Sieve Area (m <sup>2</sup> /in. <sup>2</sup> )	2.1/3255	2.1/3255	2.1/3255	2.1/3255	2.64/4092
Total Cleaning Area (m <sup>2</sup> /in. <sup>2</sup> )	5.1/7905	5.1/7905	5.9/9145	5.9/9145	6.27/9719
Cleaning Fan Speed (rpm)	620-1350	620-1350	620-1350	620-1350	550-1350
<b>GRAIN HANDLING</b>					
Grain Tank Size (L/bu.)	10600/300	10600/300	14100/400	14100/400	11000/300
Unloading Auger Length (m/ft.)	6.9/22.5, 7.9/26, or 8.7/28.5	6.9/22.5, 7.9/26, or 8.7/28.5	6.9/22.5, 7.9/26, or 8.7/28.5	6.9/22.5, 7.9/26, or 8.7/28.5	7.05/23.5
Unloading Rate (L/sec. / bu/sec.)	116.3 / 3.3	116.3 / 3.3	135 / 3.8	135 / 3.8	115/3.3



Whether you need to curb compaction, reduce rutting, or simply want greater traction when tackling muddy fields, John Deere offers you multiple flotation choices. You're sure to find a flotation system that will fit your operation and your budget.

A 580/85R42 R1W dual tire option is available on a universal rim that can be dished in or out without axle spacers.

### Low Sidewall (LSW) Drive-and-Steer Tires

You'll find some of the smoothest performance imaginable from our new LSW drive-and-steer tires. They offer a similar benefit solution as a track machine in a tire offering. That means you get superior traction and flotation when harvesting in soft, wet soil conditions. Also, they greatly reduce compaction and stubble damage to the tire. If that's not all, the LSW tires allow you to maintain transport speed without tire hop.

	S760	S770	S780	S790	T670
<b>TRACKS</b>					
36 inch John Deere Tracks (MI)		X	X	X	
30 inch John Deere Tracks (MI)		X	X	X	
<b>FRONT TIRES</b>					
520/85R42 157A8 R-1 Dual (FS/GY)	X	X			
520/85R42 162A8 R-2 Dual (FS/GY)	X	X	X	X	
IF 520/85R42 CFO 169B R-1W Dual (GY)	X	X	X	X	
VF 520/85R42 CFO 174A8 R-1W Dual (FS)	X	X	X	X	
580/85R42 166A8 R-1W Dual (FS/GY/MT)	X	X	X	X	
650/85R38 173A8 R-1W Dual (FS/GY/MT/MI)	X	X	X	X	
800/65R32 172A8 R-1W (FS)	X				
800/70R38 173A8 R-1W (FS/GY)	X	X			
VF 800/70R38 CFO 193B R-1W (FS)	X	X	X	X	
LSW 800/55R46 190D R-1W (GY)	X	X	X	X	
IF 900/65R32 CFO 191A8 R-2 (GY)	X	X	X	X	
VF 900/60R32 CFO 193B R-1W (FS)	X	X	X	X	
LSW 1100/45R46 CFO 190A8 R-1W (GY)	X	X	X	X	
IF 1250/50R32 CFO 188B R-1W (FS)	X	X	X	X	
LSW 1250/35R46 CFO 195A8 R-2 (GY)	X	X	X	X	
520/85R42 R1 Duals (GY)					X
800/65R32 (MI/MT)					X
IF800/70R32 CFO (MI)					X
900/60R32 (MT/SVT)					X
IF800/65R32 CFO (MI)					X
800/70R32 CHO (MT)					X
<b>REAR TIRES</b>					
600/70R28 161A8 R-1W (FS/GY/MT)	X	X			
620/75R26 166A8 R-1W (FS/GY)	X	X	X	X	
VF 620/75R26 172A8 R-1W (FS)	X	X	X	X	
VF 620/70R26 R1W 173A8 (MI)	X	X	X	X	
LSW 710/60R30 177A8 R-1W (GY)	X	X	X	X	
VF 710/65R26 177D R-2 (GY)	X	X	X	X	
750/65R26 166A8 R-1W (FS/GY/MT)	X	X	X	X	
VF 750/65R26 177B R-1W (FS)		X	X	X	
VF 750/65R26 CFO+ R1W 180A8 (MI)	X	X	X	X	
520/80R26 Cerebix (MI)					X
540/65R30 (MT)					X
600/65R28 (MT)					X