

Specifications S-Series Combines

COMBINE MODEL	S7 600	S7 700	S7 800	S7 900
Engine Specifications				
Type	John Deere PowerTech™	John Deere PowerTech™	John Deere PowerTech™	John Deere PowerTech™
Displacement	9.0 L (549 cu in.)	9.0 L (549 cu in.)	13.6 L (830 cu in.)	13.6 L (830 cu in.)
Emission Level	Final Tier 4 / Tier 2 (Australia/New Zealand)	Final Tier 4 / Tier 2 (Australia / New Zealand)	Final Tier 4 / Tier 2 (Australia/New Zealand)	Final Tier 4 / Tier 2 (Australia/New Zealand)
Rated Engine Speed	2,200 rpm	2,200 rpm	2,000 rpm	2,000 rpm
Rated Engine Power	249 kW (334 hp)	300 kW (402 hp)	353 kW (473 hp)	405 kW (543 hp)
Power Boost @ Rated Speed	25 kW (34 hp)	25 kW (34 hp)	25 kW (34 hp)	37 kW (50 hp)
Max Engine Power Speed	2,000 rpm	2,000 rpm	1,800 rpm	1,800 rpm
Max Engine Power	285 kW (382 hp)	343 kW (460 hp)	402 kW (540 hp)	460 kW (617 hp)
Fuel Capacity	950 L (250 gal.)	950 L (250 gal.)	1,250 L (330 gal.)	1,250 L (330 gal.)
DEF Capacity	74.2 L (19.6 gal.)	74.2 L (19.6 gal.)	74.2 L (19.6 gal.)	74.2 L (19.6 gal.)
Feeding				
Drive Type	Fixed or Variable	Fixed, Variable, or Multi-Speed	Fixed or Multi-Speed	Fixed or Multi-Speed
Conveyor Chain Slat Type	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Width	139.7 cm (55 in.)	139.7 cm (55 in.)	139.7 cm (55 in.)	139.7 cm (55 in.)
Length	172.5 cm (67.9 in.)	172.5 cm (67.9 in.)	172.5 cm (67.9 in.)	172.5 cm (67.9 in.)
Feed Accelerator, Stone Trap (FAST)	Standard	Standard	Standard	Standard
Reverser	Standard	Standard	Standard	Standard
Threshing/Separating				
Separator Type	Rotary	Rotary	Rotary	Rotary
Rotor Length	312 cm (123 in.)	312 cm (123 in.)	312 cm (123 in.)	312 cm (123 in.)
Rotor Diameter	76.2 cm (30 in.)	76.2 cm (30 in.)	76.2 cm (30 in.)	76.2 cm (30 in.)
Rotor Speed Range (High / Low)	400-1,000 / 210-530 rpm	400-1,000 / 210-530 rpm	400-1,000 / 210-530 rpm	400-1,000 / 210-530 rpm
Rotor Threshing Concave Area	1.1 m ² (11.8 sq ft)	1.1 m ² (11.8 sq ft)	1.1 m ² 11.8 sq ft	1.1 m ² 11.8 sq ft
Rotor Separation Grate Area	1.54 m ² (16.6 sq ft)	1.54 m ² (16.6 sq ft)	1.54 m ² (16.6 sq ft)	1.54 m ² 16.6 sq ft
Discharge Separation Grate Area	0.36 m ² (3.9 sq ft)	0.36 m ² (3.9 sq ft)	0.45 m ² (4.8 sq ft)	0.45 m ² 4.8 sq ft
Cleaning				
Front chaffer	0.5 m ² (5.4 sq ft)	0.5 m ² (5.4 sq ft)	0.5 m ² (5.4 sq ft)	0.5 m ² (5.4 sq ft)
Front Chaffer Extension (Code: 8496)	N/A	N/A	0.8 m ² (8.6 sq ft)	0.8 m ² (8.6 sq ft)
Chaffer	2.5 m ² (26.9 sq ft)	2.5 m ² (26.9 sq ft)	2.5 m ² (26.9 sq ft)	2.5 m ² (26.9 sq ft)
Sieve Area	2.1 m ² (22.6 sq ft)	2.1 m ² (22.6 sq ft)	2.1 m ² (22.6 sq ft)	2.1 m ² (22.6 sq ft)
Total Cleaning Area (louvered)	5.1 m ² (54.9 sq ft)	5.1 m ² (54.9 sq ft)	5.9 m ² (63.5 sq ft)	5.9 m ² (63.5 sq ft)
Cleaning Fan Speed	620-1,350 rpm	620-1,350 rpm	620-1,350 rpm	620-1,350 rpm
Grain Handling				
Grain Tank Size	10,600 L (300 bu)	10,600 L (300 bu)	14,100 L (400 bu)	14,100 L (400 bu)
Unloading Auger Length	6.9, 7.9, or 8.7 m (22.5, 26, or 28.5 ft)	6.9, 7.9, or 8.7 m (22.5, 26, or 28.5 ft)	6.9, 7.9, or 8.7 m (22.5, 26, or 28.5 ft)	6.9, 7.9, or 8.7 m (22.5, 26, or 28.5 ft)
Peak Unloading Rate	127 L/s (3.6 bu/sec)	150 L/s (4.2 bu/sec)	150 L/s (4.2 bu/sec)	150 L/s (4.2 bu/sec)
Base Weight – Less Head				
Front Axle	9,858 kg (21,737 lb)	10,366 kg (22,857 lb)	11,116 kg (24,511 lb)	11,116 kg (24,511 lb)
Rear Axle	9,646 kg (21,269 lb)	9,476 kg (20,895 lb)	11,170 kg (24,630 lb)	11,170 kg (24,630 lb)
Total Machine	119,504 kg (43,006 lb)	19,842 kg (43,752 lb)	22,286 kg (49,141 lb)	22,286 kg (49,141 lb)