

SERIOUS MACHINERY. SERIOUS RESULTS.

500E SERIES COMBINES
SPECIFICATIONS



Challenger

500E SERIES COMBINES

SPECIFICATIONS



500E SERIES COMBINE

540E | 560E

MODELS	540E	560E
FEEDING SYSTEM		
Chain Size	4-strand HD #557	4-strand HD #557
Variable-speed header drive	Optional	Optional
Feed reverser	Electro-hydraulic	Electro-hydraulic
Housing width in. (mm)	55.4 (1,408)	55.4 (1,408)
Lateral tilt	Standard	Standard
Rock protection	Standard stone trap	Standard stone trap
THRESHING / SEPARATION		
System	Rotary	Rotary
Concave type	Grain: Small wire Corn: Round bar	Grain: Small wire Corn: Round bar
Concave overload protection	Spring-dampened	Spring-dampened
Concave / grate area in. ² (m ²)	2,115 (1.36)	2,115 (1.36)
Separating area in. ² (m ²)	Grain: 3,420 (2.2) Corn / Soybeans: 3,886 (2.5)	Grain: 3,420 (2.2) Corn / Soybeans: 3,886 (2.5)
Rotor type	Segmented element	Segmented element
Rotor diameter in. (mm)	31.5 (800)	31.5 (800)
Rotor length in. (mm)	140 (3,556)	140 (3,556)
Drive type	Variable belt / 2-speed	Variable belt / 2-speed
Drive speed (rpm)	Low Speed: 277-743 High Speed: 481-1293	Low Speed: 277-743 High Speed: 481-1293
Processor reverser	Electro-hydraulic ring and pinion	Electro-hydraulic ring and pinion
CLEANING SYSTEM		
Cleaning stages	3	3
Pre-cleaner area in. ² (m ²)	992 (0.64)	992 (0.64)
Chaffer area in. ² (m ²)	4,588 (2.96)	4,588 (2.96)
Sieve area in. ² (m ²)	3,875 (2.50)	3,875 (2.50)
Total area in. ² (m ²)	9,455 (6.10)	9,455 (6.10)
Cleaning fan type and diameter in. (mm)	Transverse, 13 (330.0)	Transverse, 13 (330.0)
GRAIN HANDLING SYSTEM		
Grain bin bu. (L)	350 (12,334)	350 (12,334)
Unloading auger diameter in. (mm)	15 (381)	15 (381)
Average unload rate bu. / sec (L / sec)	4.0 (141)	4.0 (141)
Unloading auger length from center line in. (m)	Std. 292.6 (7.4) Opt. 328.0 (8.3)	Std. 292.6 (7.4) Opt. 328.0 (8.3)
Unloading auger discharge height in (m)	Std. 171.2 (4.34) Opt. 179.8 (4.6)	Std. 171.2 (4.34) Opt. 179.8 (4.6)

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CROP RESIDUE DISPOSAL		
Straw chopper (optional)	2-speed MAV™	2-speed MAV™
Straw spreader	2-speed	2-speed
Hydraulic chaff spreader	Optional	Optional
ENGINE		
Engine model	AGCO POWER™ 98 ATI	AGCO POWER™ 98 ATI
Displacement in. ³ (L)	598 (9.8)	598 (9.8)
Number of cylinders	7 / inline	7 / inline
Horsepower @ 2,100 rpm SAE (kW)	Rated 375 (280) Unload boost 451 (331)	Rated 460 (343) Unload boost 490 (365)
Fuel tank capacity gal. (L)	230 (870)	230 (870)
DRIVE / PROPULSION SYSTEM		
Transmission (variable / manual)	2-speed hydrostatic / 4-speed	2-speed hydrostatic / 4-speed
Steering axle options	Std. adjustable Opt. 2-speed RWA	Std. adjustable Opt. 2-speed RWA
HYDRAULIC SYSTEM		
Hydraulic pump	Piston / variable disp.	Piston / variable disp.
Hydraulic reservoir capacity gal. (L)	22.5 (85.2)	22.5 (85.2)
CAB AND CONTROLS		
Standard seats	High-back cloth, pneumatic suspension	High-back cloth, pneumatic suspension
Optional seats	Deluxe seat, fabric w/leather side bolsters, heating and cooling, pneumatic suspension	Deluxe seat, fabric w/leather side bolsters, heating and cooling, pneumatic suspension



- ▲ The powered unloading auger grain saver eliminates grain loss from the spout, especially when the auger is disengaged while full of grain.
- ▲ The enhanced cab design delivers maximum operator comfort through ergonomic placement of controls and various interior quality improvements.

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