SPECIFICATIONS

550H



Engine	550H LT	550H LGP
Type	John Deere 4045T with altitude-compensating	John Deere 4045T with altitude-compensating
	turbocharger	turbocharger
Rated power @ 2,200 rpm	80 SAE net hp (60 kW)	84 SAE net hp (63 kW)
Cylinders, wet sleeve	4	4
Displacement	276 cu. in. (4.52 L)	276 cu. in. (4.52 L)
Fuel consumption, typical	1.7 to 2.6 gal./hr. (6.4 to 9.8 L/h)	1.7 to 2.6 gal./hr. (6.4 to 9.8 L/h)
Maximum net torque	255 lbft. (344 Nm) @ 1,200 rpm	276 lbft. (372 Nm) @ 1,200 rpm
Lubrication	pressure system with full-flow spin-on filter and oil-to-wa	ter cooler
Air cleaner	dual stage dry type with safety element, precleaner, and c	lash-mounted restriction indicator
Electrical system	12 volt with 65-amp alternator	
Cooling fan	blower	

Transmission

Dual-path, electronic-controlled, hydrostatic drive; load-sensing feature automatically adjusts speed and power to match changing load conditions; each individual track is powered by a variable-displacement piston pump and two-speed motor combination; decelerator controls speed from holding to 5.0 mph (8.0 km/h)

Travel speeds (infinitely variable)

Final Drives

Heavy-duty triple-reduction final drives attach directly to the mainframe and are isolated from track frame and dozer frame loads

Steering

Single-lever steering, direction control, and counterrotation; full power turns and infinitely variable track speeds provide unlimited maneuverability and optimum control; hydrostatic steering eliminates steering clutches and brakes

Brakes

Hydrostatic (dynamic) braking stops the machine whenever the direction-control lever is moved to neutral, whenever the decelerator is depressed to the end of travel, or whenever the brake pedal is depressed

Automatic Park Brake

Exclusive safety feature engages wet, multiple-disc brakes automatically whenever the engine stops, whenever the operator applies the brake pedal, or whenever the neutral start lever lock is in the stop position; machine cannot be driven with brake applied, reducing wear out or need for adjustment

Hydraulic System

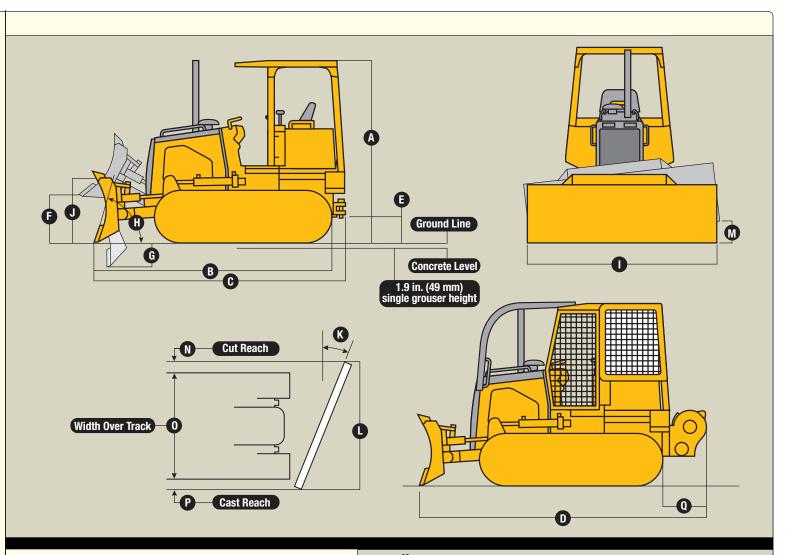
System	open center
Pressure, main relief	3,000 psi (20 685 kPa)
Pump	gear
Flow	15 gpm (56.8 L/min.) @ 2,200 rpm
Filter, return oil	10 micron
Control	T-bar three function
Cylinders	heat-treated, chrome-plated, polished cylinder rods, hardened steel (replaceable bushings) pivot pins

Capacities (U.S.)

Fuel tank with lockable cap	.47 gal. (178 L)
Cooling system with coolant recovery tank	.17 qt. (16 L)
Engine oil including spin-on filter	.15 qt. (14 L)
Transmission reservoir refill with filter change	.11.3 gal. (42.7 L)
Final drive (each)	.7 qt. (6.6 L)
Hydraulic reservoir refill with filter change	.8.5 gal. (32.2 L)
All power train and hydraulic systems allow 45-de	gree maximum operation.

Undercarriage 550H LT 550H LGP John Deere Dura-TraxTM features large deep-heat-treated components; pins and bushings are sealed for life; rollers and idlers are permanently sealed and lubricated; fulllength track frame covers reduce material buildup and ease cleaning Grouser width (closed center, single bar)......18 in. (457 mm) 24 in. (610 mm) Track shoes, each side40 Ground contact area......3,096 sq. in. (19 974 cm²) 4,128 sq. in. (26 632 cm²) 4.2 psi (29.0 kPa) Ground clearance with single-bar grouser (excluding grouser height)......13.6 in. (345 mm) 13.6 in. (345 mm) Length of track on ground86 in. (2184 mm) 86 in. (2184 mm) 69 in. (1753 mm) Track rollers, each side6 6.29 in. (160 mm) SAE Operating Weights Base weights were computed for units with standard equipment, rollover protective structures, full fuel tanks, and 175-lb. (79 kg) operators. 105-in. (2667 mm) blade and 18-in. (457 mm) 128-in. (3251 mm) blade and 24-in. (610 mm) Optional or Special Equipment Add (+) or deduct (-) lb. (kg) as indicated to base weight for units with Rock guards (4)......288 lb. (131 kg) 288 lb. (131 kg) 24-in. (610 mm) track shoesin base 24-in. (610 mm) swamp shoes160 lb. (72 kg) 20 lb. (9 kg) Cab with heater......630 lb. (285 kg) 630 lb. (285 kg) 660 lb. (299 kg) Under-seat ROPS heater......26 lb. (12 kg) 26 lb. (12 kg) 330 lb. (150 kg) Counterweight, rear (each)330 lb. (150 kg) Counterweight, front (each)240 lb. (109 kg) 240 lb. (109 kg) Lights, driving......3 lb. (1 kg) 3 lb. (1 kg) 9 lb. (4 kg) 33 lb. (15 kg) 50 lb. (23 kg) 72 lb. (33 kg) Limb risers229 lb. (104 kg) 229 lb. (104 kg) 76 lb. (35 kg) Side screens94 lb. (43 kg) 94 lb. (43 kg) 179 lb. (81 kg) 1,437 lb. (653 kg) Winch fairlead, four roller187 lb. (85 kg) 187 lb. (85 kg) 1,306 lb. (594 kg) 97-in. (2464 mm) blade, all-hydraulic heavyduty C frame 151 lb. (- 68 kg) 115-in. (2921 mm) blade, all-hydraulic heavy-121-in. (3073 mm) blade, all-hydraulic heavy-All-hydraulic heavy-duty C frame (less blade)...... 1,212 lb. (- 550 kg) - 1,373 lb. (- 623 kg)

	ensions (drawing on page 23) Overall height with ROPS or cab		550H LGP
_			108 in. (2743 mm)
В	Overall length*	,	159 in. (4040 mm)
C	Overall length with extended drawbar	,	161 in. (4090 mm)
D	Overall length with winch**	179 in. (4547 mm)	179 in. (4547 mm)
Ε	Ground clearance, minimum	10 C :- (045)	10 C in (045 mm)
	Single-bar grouser		13.6 in. (345 mm) 14.4 in. (366 mm)
F	Blade lift height		31.4 in. (300 iiiii)
	· ·	,	· · · · · · · · · · · · · · · · · · ·
G	Blade digging depth	20.6 In. (523 mm)	20.6 in. (523 mm)
П	Blade cutting edge angle, three position adjustable	52 56 or 60 degrees	52, 56, or 60 degrees
		o change to overall length with retrieval hitch.	32, 30, or 00 degrees
0 F	H Blade Specs		
	Width	105 in. (2667 mm)	
J	Height	•	
	SAE capacity		
K	Blade angle	- , , , ,	
L	Angled width	· ·	
M	Tilt	,	
N	Cut reach	,	
0	Width over track	,	
D	Cast reach	· · · · · · · · · · · · · · · · · · ·	
•	Cast reacti	14.7 III. (373 IIIII)	
I			
J			
.,			- , ,
K	*		-
L	•		• • • •
M	Tilt		15.7 in. (399 mm)
N			,
0	Width over track		93 in. (2362 mm)
P	Cast reach		12.5 in. (318 mm)
1	Width		121 in. (3073 mm)
J			
K	Blade angle		22.2 degrees
L	Angled width		114.4 in. (2906 mm)
M	Tilt		16.5 in. (420 mm)
N	Cut reach		5.7 in. (145 mm)
0			• • • • • • • • • • • • • • • • • • • •
P	Cast reach		15.7 in. (399 mm)
I	Width		128 in. (3251 mm)
J			
	SAE capacity		2.21 cu. yd. (1.69 m ³)
K	Blade angle		22.2 degrees
L	Angled width		120.9 in. (3070 mm)
M	Tilt		17.5 in. (444 mm)
N	Cut reach		9.1 in. (231 mm)
0	Width over track		93 in. (2362 mm)
D			, ,



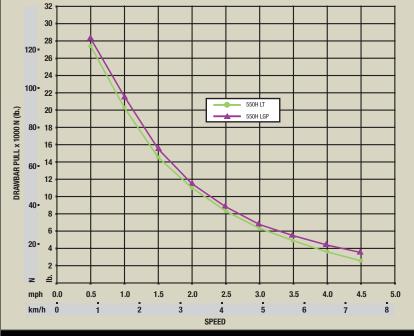
550H Forestry Application

Available limb risers and screens for the rollover protective structure, John Deere-built, self-contained 4000S Winch* for versatile skidding and clearing operations

- **D** Overall length with winch**179 in. (4547 mm)
- **Q** 4000S Winch length29.6 in. (752 mm)
 - *Reference 4000S Winch spec sheet.
 **See page 22 for related dimensions.

Drawbar Pull

Crawler speed vs ground pullusable pull will depend on traction and weight of tractor



(ey: Standard equipment 🔺 Optional o	r special equipment	*5	See your John Deere dealer for further information
50 550 650 Engine	450 550 650 C-Frames and Blades	450 550 650 Undercarriage (cont.)	450 550 650 Operator's Station (cont.
Electric fuel shutoff, key start switch Oil-to-water engine oil cooler	 Six-way all-hydraulic C-frame with adjustable blade pitch Remote C-frame pivot grease 	▲ ▲ Sealed track chains ▲ ▲ Sealed and lubricated track chains	Accessories: Convex wide- angle interior rearview mirror Knee cushions (2) / Seat-side
Vertical spin-on oil filter Vertical spin-on primary fuel filter with water separator	banks Cordura-covered hoses, conveniently replaceable lengths	Self-cleaning pyramid swamp shoes* Lights	lockable storage box/lunch box/cup holder Rear window wiper and wash
 Vertical spin-on final fuel filter Dual-element dry air cleaner, built-in precleaner, and evacu- 	Straight end bits Pitch link, pitched mid-range Alternate pitch link, pitched	▲ ▲ Grille-mounted driving lights (2), rear light (1), halogen, 2,000 candlepower each	for cab AM/FM weatherband radio Complete enclosure ROPS-to-
ator valve Above-hood pre-screener/ raincap	forward Alternate pitch link, pitched back Electrical	▲ ▲ High-intensity work lights, front (2) and rear (2), with steel guards, 65 watts each*	cab conversion panels Rear-and-side-only enclosure Front windshield and doors
External primary precleaner* Enclosed safety fan guard Coolant recovery tank	 12-volt system Fuse panel, blade-style multi- fused circuit breakers 	Operator's Station ■ Modular ROPS/FOPS canopy, isolation mounted (conforms	enclosure Overall Vehicle One-piece unitized construc-
Engine coolant to -34°F (-37°C) Blower-type cooling fan Trash-resistant seven-fin in-line	Electric horn Reverse warning alarm Electric fuel gauge	to SAE J1040) Under-seat ROPS heater, 30,000 Btu/hr	tion mainframe Front tow loop (bolt-on) Reinforced engine and mid-
radiator A Radiator sand screen (steel) Under-hood muffler, vertical exhaust stack	Electric hourmeter Transmission oil pressure gauge Master electrical disconnect	Modular ROPS/FOPS cab, iso- lation mounted (conforms to SAE J1040): Fresh air intake	frame bottom guards Integral transmission guard Heavy-duty louvered grille
Pre-wired for ether start aid Electric ether start aid Coolant heater, 1,000 watts,	Positive battery terminal covers By-pass start safety cover at starter	cab heater/defroster/pressur- izer, 18,000 Btu/hr with air pre- cleaner / Dome light / Deluxe	Perforated engine side shield Vandal protection lock provisions for: Engine service acce
110 volts Coolant heater, fuel fired Powertrain and Controls	Electronic monitor, visual and audible warning A	headliner with molded air ducts for heater, defroster, and air conditioner / 30,000 Btu/hr	cover / Fuel fill / Hydraulic reservoir fill/check / Trans- mission reservoir fill/check /
Dual-path hydrostatic transmission Single-lever steering, F-N-R	tional gauges ▲ Ground-speed selection display ● Single 12-volt low-mainte- nance battery, 190-min. reserve	underseat heater / Front wind- shield and doors, wipers and washers / Tinted safety glass /	Instrument panel
direction control Decelerator pedal, automatic retardation	capacity, 950 CCA Dual 12-volt low-maintenance batteries, 380-min. reserve	Antenna for radio / 95-amp alternator Air conditioning, 24,000 Btu/hr	A Environmental drains Chrome exhaust stack Trademarks/decals, French o
Engine-speed selection lever Infinite ground speed selection lever	capacity, 1,900 CCA 65-amp sealed alternator with ROPS	 Right and left access Slip-resistant front-mounting steps 	Spanish Transport lift and tie-down ring Protection Packages
Ground speed in grip with speed ratio Automatic straight-ahead	▲ ▲ 20-amp power port, for phone and radio Hydraulic System	Ergonomically located hand-holds Headliner	▲ ▲ Extreme-duty louvered grille and hose protection
tracking Dynamic braking (anti-free wheel)	15-gpm fixed-displacement gear pump	Floormat Adjustable footrests Adjustable full-length armrests	Limb risers, arched or point- to-point Operator-protective rear scree
Counterrotation Service-brake pedal Transmission neutral lock,	Pump, through-drive for winch or auxiliary pump Low-effort T-bar blade control	Built-in Operator's Manual storage Suspension vinyl seat (con-	Operator-protective side screens (ROPS) Operator-protective full-screen
safety start switch • Automatic spring-applied,	 Independent reservoir with sight gauge Vertical spin-on filter 	forms to SAE J899): Fore and aft/weight and height com- bined adjustment / Adjustable	package Heavy-duty engine air-intake guard
hydraulic-released parking brake Independent transmission oil recognition with eight gauge	O-ring face seal connectors Three-function valve Four- and five-function valves	leg support / Seat belt, 2 in. (51 mm), retractable with CRS (conforms to SAE J386)	Atr-conditioning module guar Attachments Counterweight, rear, 330 lb.
reservoir with sight gauge Onboard diagnostics with visual display	with levers, with or without float* A A Rear auxiliary plumbing	▲ ▲ Deluxe suspension vinyl or cloth seat (conforms to SAE J899): Fore and aft/weight and	(150 kg) each Counterweight, front, 240 lb. (109 kg) each
Oil-to-air transmission oil cooler Built-in final drive seal guards	Undercarriage ■ Single-flange rollers	height combined adjustment / Adjustable leg support / Adjusta- able backrest angle / Adjustable	Retrieval hitch with pin Extended rigid drawbar with
Triple-reduction final drives with wet multi-disc brakes Remote diagnostic test ports	Double-flange rollers* Full-length track frame covers Chain guides, front and rear	lumbar support / Adjustable seatback extension / Seat belt,	pin for pull-type implements Extended drawbar for winch Parallelogram ripper with five
Maximum forward/reverse	(bolt-on)	3 in. (76 mm), retractable with	shank pockets and three tee



speed 5.0 mph (8.0 km/h)

Automatic 15% increase in

reverse speed from set for-

ward speed

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 6270B, using No. 2-D fuel at 35 API gravity. Gross power is without cooling fan.

Solid sprockets

rock guards

Fully protected track-tension adjusters

Sprocket rock guards (bolt-on)

Bolt-on full-length track-roller

Specifications and design subject to change without notice. Wherever applicable, specifications are Specimications and useign studject to change without notice, wherever applicative, specimications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on units with standard equipment, rollover protective structures, full fuel tanks, and 175-lb. (79 kg) operators; 450H/LT units with 97-in. (2464 mm) blade and 16-in. (406 mm) track shoes; 450H LCP unit with 124-in. (3150 mm) blade; 450H LCP and 550H LCP unit with 124-in. (4150 mm) track shoes; 550H LCP and 650H LT units with 105-in. (2667 mm) blade and 18-in. (457 mm) track shoes; 550H LCP and 650H LGP units with 128-in. (3251 mm) blade; and 650H LGP unit with 28-in. (711 mm) track shoes.

CRS (conforms to SAE J386)

able with CRS (conforms to

SAE J386)

Seat belt, 3 in. (76 mm), retract-

Convex interior rearview mirror



Standard or low-speed winch

Power-in/out standard-speed

Power-in/out low-speed winch

Four-roller fairlead for winch

winch

Four-roller fairlead
Log arch for winch