450H



Engine	450H	450H LT	450H LGP
Туре	John Deere 4045D naturally aspirated	John Deere 4045D naturally aspirated	John Deere 4045T with altitude-
Optional	John Deere 4045T with altitude-	John Deere 4045T with altitude-	compensating turbocharger
	compensating turbocharger	compensating turbocharger	
Rated power @ 2,200 rpm	70 SAE net hp (52 kW) and 73 SAE	70 SAE net hp (52 kW) and 73 SAE	74 SAE net hp (55 kW) and 79 SAE
	gross hp (54.5 kW)	gross hp (54.5 kW)	gross hp (59 kW)
Cylinders, wet sleeve	4	4	4
Displacement	276 cu. in. (4.52 L)	276 cu. in. (4.52 L)	276 cu. in. (4.52 L)
Fuel consumption, typical	1.5 to 2.3 gal./hr. (4.9 to 8.7 L/h)	1.5 to 2.3 gal./hr. (4.9 to 8.7 L/h)	1.5 to 2.3 gal./hr. (4.9 to 8.7 L/h)
Maximum net torque	223 lbft. (302 Nm) @ 1,200 rpm	223 lbft. (302 Nm) @ 1,300 rpm	254 lbft. (345 Nm) @ 1,300 rpm
Lubrication	pressure system with full-flow spin-on	filter and oil-to-water cooler	
Air cleaner	dual stage dry type with safety elemen	t, precleaner, and dash-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)

Forward and reverse 0 to 5.0 mph (0 to 8.0 km/h)

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

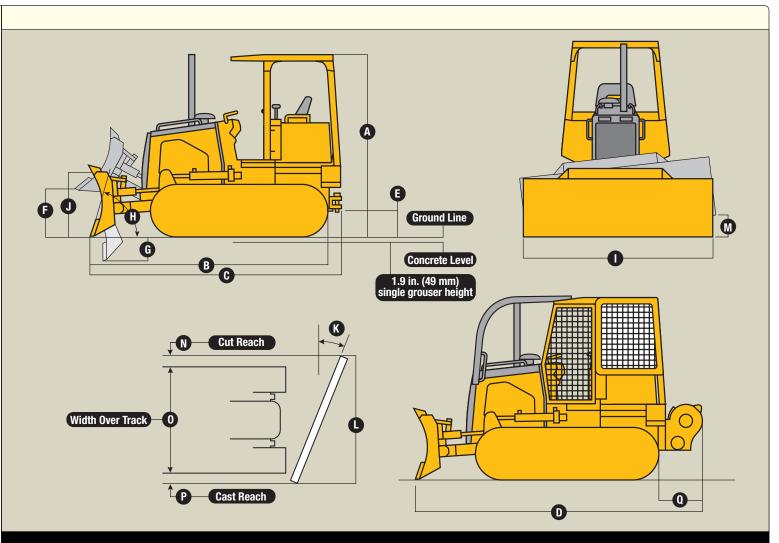
Systemopen center	
Pressure, main relief	
Pumpgear	
Flow15 gpm (56.8 L/min.) @ 2,200 rpm	
Filter, return oil10 micron	
ControlT-bar three function	
Cylindersheat-treated, chrome-plated, polished cylinder rods, hardened steel (replaceable bushings) pivot pi	ns

Capacities (U.S.)

Fuel tank with lockable cap	.36 gal. (136 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	450H	450H LT	450H LGP
John Deere Dura-Trax™ features large	deep-heat-treated components; pins and bu	shings are sealed for life; rollers and idlers	are permanently sealed and lubricated; full-
length track frame covers reduce m			
Grouser width (closed center, single bar	r)16 in. (406 mm)	16 in. (406 mm)	24 in. (610 mm)
Track shoes, each side		40	40
Ground contact area	2,464 sq. in. (15 897 cm ²)	2,752 sq. in. (17 755 cm ²)	4,128 sq. in. (26 632 cm ²)
Ground pressure		5.6 psi (38.6 kPa)	4.0 psi (27.6 kPa)
Ground clearance with single-bar grous	er		
(excluding grouser height)	13.6 in. (346 mm)	13.6 in. (346 mm)	13.6 in. (346 mm)
Length of track on ground	77 in. (1956 mm)	86 in. (2184 mm)	86 in. (2184 mm)
Track gauge, standard	57 in. (1450 mm)	57 in. (1450 mm)	65 in. (1650 mm)
Track rollers, each side		6	6
Track pitch	6.29 in. (159.8 mm)	6.29 in. (159.8 mm)	6.29 in. (159.8 mm)
SAE Operating Weight	_		
SAE Operating Weights			
Base weights were computed for units 97-in. (2464 mm) blade and 16-in. (406	with standard equipment, rollover protective S mm)	structures, tull tuel tanks, and 175-lb. (79 k	g) operators.
track shoes		15,500 lb. (7045 kg)	
124-in. (3150 mm) blade and 24-in. (61		10,000 lb. (7040 kg)	
			16 500 lb (7500 kg)
แตะก อแบะจ			10,500 lb. (7500 kg)
Ontional or Special Fo	uinmant		
Optional or Special Eq Add (+) or deduct (-) lb. (kg) as indicate			
		000 lb (101 kg)	000 lb (101 kg)
Rock guards (4)		288 lb. (131 kg)	288 lb. (131 kg)
14-in. (343 mm) track shoes			400 !!. (70 ! .)
•	00 lb (0.1)		, -,
Deluxe seat group		20 lb. (9 kg)	20 lb. (9 kg)
Cab with heater		590 lb. (268 kg)	590 lb. (268 kg)
Cab with air conditioning		675 lb. (306 kg)	675 lb. (306 kg)
Under-seat ROPS heater		26 lb. (12 kg)	26 lb. (12 kg)
Counterweight, rear (each)		330 lb. (150 kg)	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)
Work lights, high intensity		9 lb. (4 kg)	9 lb. (4 kg)
Front tow hook		33 lb. (15 kg)	33 lb. (15 kg)
Retrieval hitch		50 lb. (23 kg)	50 lb. (23 kg)
Extended drawbar		72 lb. (33 kg)	72 lb. (33 kg)
Limb risers		229 lb. (104 kg)	229 lb. (104 kg)
Rear screen		76 lb. (35 kg)	76 lb. (35 kg)
Side screens	94 lb. (43 kg)	94 lb. (43 kg)	94 lb. (43 kg)
Screens, front and doors	179 lb. (81 kg)	179 lb. (81 kg)	179 lb. (81 kg)
4000S Winch		1,437 lb. (653 kg)	1,437 lb. (653 kg)
Winch fairlead, four roller	187 lb. (85 kg)	187 lb. (85 kg)	187 lb. (85 kg)
Parallelogram ripper		1,306 lb. (594 kg)	1,306 lb. (594 kg)
90-in. (2286 mm) blade, all-hydraulic h	eavy-	, 0,	, 0,
duty C frame	38 lb. (17 kg)	38 lb. (17 kg)	
90-in. (2286 mm) blade, all-hydraulic si			
C frame		– 58 lb. (– 26 kg)	
97-in. (2464 mm) blade, all-hydraulic h		. (3)	
, , , , , ,		96 lb. (43 kg)	
duty C frame			
duty C frame		(3,	
115-in. (2921 mm) blade, all-hydraulic			5 lb. (2 kg)

ensions (drawing on page 19)	450H	450H LT	450H LGP
Overall height with ROPS or cab	` '	102 in. (2590 mm)	102 in. (2590 mm)
Overall length*	155 in. (3937 mm)	158 in. (4013 mm)	158 in. (4013 mm)
Overall length with extended drawbar	162 in. (4114 mm)	160 in. (4064 mm)	160 in. (4064 mm)
Overall length with winch**	177 in. (4496 mm)	177 in. (4496 mm)	177 in. (4496 mm)
Ground clearance, minimum			
Single-bar grouser		13.6 in. (345 mm)	13.6 in. (345 mm)
Swamp shoes		14.4 in. (366 mm)	14.4 in. (366 mm)
Blade lift height	, ,	30.4 in. (773 mm)	30.4 in. (773 mm)
Blade digging depth	20.8 in. (528 mm)	20.8 in. (528 mm)	20.8 in. (528 mm)
Blade cutting edge angle, three position adjustable		52, 56, or 60 degrees or the 450H LT and 450H LGP, there is no ch	52, 56, or 60 degrees
**See page 19 for forestry application.	verali lengur with retrieval filton. Fo	or the 45011 Er and 45011 Ear, there is no cr	lange to overall length with retheval filter
H Blade Specs	00 in (0000 mm)	00 in (0000 mm)	
Width	, ,	90 in. (2286 mm)	
HeightSAE capacity		32.5 in. (826 mm) 1.9 cu. yd. (1.4 m ³)	
Blade angle	. , ,	- , ,	
		25.4 degrees	
Angled width	,	82.9 in. (2106 mm)	
Tilt	, ,	12.3 in. (313 mm)	
Cut reach		0	
Width over track	, ,	73 in. (1854 mm)	
Cast reach	10 in. (255 mm)	10 in. (255 mm)	
Width	, ,	97 in. (2464 mm)	97 in. (2464 mm)
Height	` '	32.5 in. (826 mm)	32.5 in. (826 mm)
SAE capacity	. , ,	2.0 cu. yd. (1.5 m ³)	2.0 cu. yd. (1.5 m ³)
Blade angle		25.4 degrees	22.2 degrees
Angled width	89.3 in. (2267 mm)	89.3 in. (2267 mm)	91.2 in. (2318 mm)
Tilt	,	13.3 in. (337 mm)	13.3 in. (337 mm)
Cut reach	, ,	3.1 in. (78 mm)	1.6 in. (41 mm)
Width over track	73 in. (1854 mm)	73 in. (1854 mm)	79 in. (2006 mm)
Cast reach	13.2 in. (335 mm)	13.2 in. (335 mm)	10.6 in. (269 mm)
Width		115 in. (2921 mm)	115 in. (2921 mm)
Height		` ' -	32.5 in. (826 mm)
SAE capacity		, ,	2.29 cu. yd. (1.75 m ³)
Blade angle			25.4 degrees
Angled width		105.5 in. (2680 mm)	105.5 in. (2680 mm)
Tilt		15.8 in. (400 mm)	15.8 in. (400 mm)
Cut reach		10.6 in. (268 mm)	2.6 in. (65 mm)
Width over track		73 in. (1854 mm)	89 in. (2260 mm)
Cast reach		22 in. (558 mm)	14 in. (355 mm)
Width			124 in. (3150 mm)
SAE capacity			2.15 cu. yd. (1.64 m ³)
Blade angle			25.4 degrees
Angled width			113.7 in. (2887 mm)
Tilt			17 in. (432 mm)
Cut reach			6.8 in. (173 mm)
			, ,
			, , ,



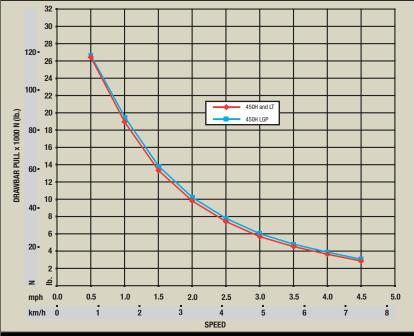
450H Forestry Application

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**177 in. (4496 mm)
- **Q** 4000S Winch length29.6 in. (752 mm)
 - *Reference 4000S Winch spec sheet.
 - **See page 18 for related dimensions.

Drawbar Pull

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



Key: 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 evacuator valve 	 Straight end bits Pitch link, pitched mid-range Alternate pitch link, pitched forward 	A Grille-mounted driving lights (2), rear light (1), halogen, 2,000 candlepower each	for cab AM/FM weatherband radio Complete enclosure ROPS-to- cab conversion panels
Above-hood pre-screener/ raincap External primary precleaner*	Alternate pitch link, pitched back Electrical	▲ ▲ High-intensity work lights, front (2) and rear (2), with steel guards, 65 watts each*	A Rear-and-side-only enclosure Front windshield and doors enclosure
Enclosed safety fan guard Coolant recovery tank Engine coolant to -34°F (-37°C)	 12-volt system Fuse panel, blade-style multi- fused circuit breakers 	Operator's Station Modular ROPS/FOPS canopy, isolation mounted (conforms	Overall Vehicle One-piece unitized construc-
Blower-type cooling fan Trash-resistant seven-fin in-line radiator	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-
A Radiator sand screen (steel) Under-hood muffler, vertical exhaust stack	 Electric hourmeter Transmission oil pressure gauge Master electrical disconnect Positive battery terminal covers 	Modular ROPS/FOPS cab, isolation mounted (conforms to SAE J1040): Fresh air intake	frame bottom guards Integral transmission guard Heavy-duty louvered grille Perforated engine side shield
Pre-wired for ether start aid Electric ether start aid Coolant heater, 1,000 watts,	 By-pass start safety cover at starter Electronic monitor, visual and 	cab heater/defroster/pressur- izer, 18,000 Btu/hr with air pre- cleaner / Dome light / Deluxe headliner with molded air ducts	Vandal protection lock provisions for: Engine service acce cover / Fuel fill / Hydraulic
110 volts Coolant heater, fuel fired Powertrain and Controls	audible warning Electronic monitor with additional gauges	for heater, defroster, and air conditioner / 30,000 Btu/hr underseat heater / Front wind-	reservoir fill/check / Trans- mission reservoir fill/check / Instrument panel
 Dual-path hydrostatic transmission Single-lever steering, F-N-R 	Ground-speed selection display Single 12-volt low-mainte- nance battery, 190-min. reserve	shield and doors, wipers and washers / Tinted safety glass / Antenna for radio / 95-amp	Lockable grease gun/tool storage compartment in righ access door
direction control Decelerator pedal, automatic retardation	capacity, 950 CCA Dual 12-volt low-maintenance batteries, 380-min. reserve	alternator A Air conditioning, 24,000 Btu/hr Right and left access	Environmental drains Chrome exhaust stack Trademarks/decals, French o
Engine-speed selection lever Infinite ground speed selection lever Consult appeal in this with	capacity, 1,900 CCA 65-amp sealed alternator with ROPS	 Slip-resistant front-mounting steps Ergonomically located hand- 	Spanish Transport lift and tie-down ring Protection Packages
Ground speed in grip with speed ratio Automatic straight-ahead tracking	20-amp power port, for phone and radio Hydraulic System	holds Headliner Floormat	▲ ▲ Extreme-duty louvered grille and hose protection ▲ ▲ Limb risers, arched or point-
Dynamic braking (anti-free wheel) Counterrotation	 15-gpm fixed-displacement gear pump Pump, through-drive for winch 	Adjustable footrests Adjustable full-length armrests Built-in Operator's Manual	to-point Operator-protective rear scre Operator-protective side
Service-brake pedal Transmission neutral lock, safety start switch	or auxiliary pump	 storage Suspension vinyl seat (conforms to SAE J899): Fore and 	screens (ROPS) Operator-protective full-scre package
Automatic spring-applied, hydraulic-released parking brake	sight gauge Vertical spin-on filter O-ring face seal connectors	aft/weight and height com- bined adjustment / Adjustable leg support / Seat belt, 2 in.	▲ ▲ Heavy-duty engine air-intake guard ▲ ▲ Air-conditioning module gua
Independent transmission oil reservoir with sight gauge Onboard diagnostics with	Three-function valve Four- and five-function valves with levers, with or without float*	(51 mm), retractable with CRS (conforms to SAE J386) Deluxe suspension vinyl or cloth seat (conforms to SAE	Attachments Counterweight, rear, 330 lb. (150 kg) each
visual display Oil-to-air transmission oil cooler	Rear auxiliary plumbing Undercarriage	cioth seat (conforms to SAE J899): Fore and aff/weight and height combined adjustment / Adjustable leg support / Adjusta-	Counterweight, front, 240 lb. (109 kg) each Retrieval hitch with pin
Built-in final drive seal guards Triple-reduction final drives with wet multi-disc brakes	Single-flange rollers Double-flange rollers* Full-length track frame covers	adjustable leg support / Adjustable able backrest angle / Adjustable lumbar support / Adjustable seatback extension / Seat belt,	Extended rigid drawbar with pin for pull-type implements Extended drawbar for winch
Remote diagnostic test ports Maximum forward/reverse	Chain guides, front and rear (bolt-on)	3 in. (76 mm), retractable with	A Parallelogram ripper with five shank pockets and three teet



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