



JD

CONSTRUCTION EQUIPMENT

DOZER



MODEL NO.

700H

700H

DZER

SPECIFICATIONS

CONSTRUCTION EQUIPMENT DIVISION JD

Engine 700H LT / 700H LGP

Type	John Deere PowerTech® 6068T with turbocharger
Rated power	115 SAE net hp (85 kW) @ 2,100 rpm / 123 SAE gross hp (92 kW)
Cylinders, wet sleeve	6
Displacement	414 cu. in. (6.8 L)
Fuel consumption, typical	2.4 to 4.8 gal./hr. (9.1 to 18.2 L/hr)
Maximum net torque	410 lb.-ft. (525 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 element, pre-cleaner, and dash-mounted restriction indicator
Electrical system	24 volt with 55-amp alternator
Cooling fan	blower-type

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 motor combination; decelerator controls speed from holding to 5.5 mph (8.9 km/h)

Travel speeds (infinitely variable)

Forward and reverse	0 to 5.5 mph (0 to 8.9 km/h)
Reverse speed ratio control	80, 100, 115, and 130% of forward speed to maximum of 5.5 mph (8.9 km/h)

Final Drives

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

Steering

Single-lever steering, speed, and 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 whenever the engine stops, whenever the operator applies the brake pedal, or whenever the park lock lever is placed in the start position; machine cannot be driven with brake applied, reducing wear out or need for adjustment

Hydraulic System

System	open center
Pressure, main relief	3,200 psi (22 064 kPa)
Pump	gear-type, fixed-displacement pump
Flow	25 gpm (95 L/min.) @ 2,100 rpm
Filter, return oil	10 micron
Control	T-bar three function
Cylinders	heat-treated, chrome-plated, polished cylinder rods with hardened steel (replaceable bushings) pivot pins

Capacities (U.S.)

Fuel tank with lockable cap	60 gal. (227 L)
Cooling system with coolant recovery tank	5.6 gal. (21 L)
Engine oil including spin-on filter	20 qt. (19 L)
Transmission reservoir refill including spin-on filter	17.2 gal. (65 L)
Final drive (each)	14 qt. (13 L)
Hydraulic reservoir refill including spin-on filter	13.5 gal. (51 L)
4000S John Deere Winch, if equipped	10 gal. (38 L)

All power train and hydraulic systems allow 45-degree maximum operation.

SAE Operating Weights**700H LT****700H LGP**

With standard equipment, rollover protective structure, full fuel

tank, and 175-lb. (79 kg) operator

With 120-in. (3048 mm) blade and 20-in. (508 mm) track shoes 25,800 lb. (11 701 kg)

With 132-in. (3353 mm) blade and 30-in. (762 mm) track shoes 27,900 lb. (12 653 kg)

Dimensions

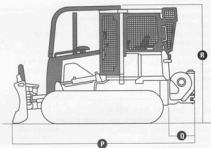
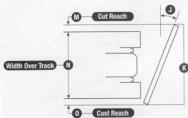
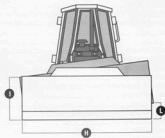
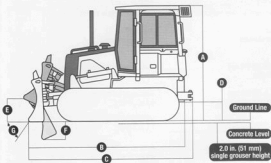
Rounded to the nearest whole number.

A Overall height with canopy or cab	118 in. (2985 mm)	118 in. (2985 mm)
B Overall length with canopy*	178 in. (4509 mm)	185 in. (4693 mm)
Overall length with cab*	180 in. (4580 mm)	188 in. (4765 mm)
C Overall length with retrieval hitch*	179 in. (4552 mm)	186 in. (4736 mm)
Overall length with extended drawbar*	193 in. (4905 mm)	188 in. (4779 mm)
D Ground clearance, minimum		
With single-bar grouser (excludes grouser height)	15 in. (381 mm)	15 in. (381 mm)
With swamp shoes (includes shoe height)		17.6 in. (447 mm)
E Blade lift height	36 in. (909 mm)	39 in. (980 mm)
F Blade digging depth	20 in. (500 mm)	21 in. (541 mm)
G Blade cutting edge angle, variable adjustment range	7 degrees	7 degrees

*For the 700H LT and LGP, add 1.7 in. (43 mm) to overall length of canopy unit with retrieval hitch and 15.6 in. (395 mm) to overall length with extended drawbar.

H-Series Blade Specs

H Width	120 in. (3048 mm)	
SAE capacity	3.44 cu. yd. (2.63 m ³)	
I Height (at ends)	39 in. (998 mm)	
Top of spill sheet (center section)	45 in. (1140 mm)	
J Blade angle, right and left	25 degrees	
K Angled width	109 in. (2769 mm)	
L Tilt	17 in. (424 mm)	
M Cut reach (with 20-in. [508 mm] shoes)	2 in. (51 mm)	
N Width over track	90 in. (2286 mm)	
O Cast reach (with 20-in. [508 mm] shoes)	16 in. (401 mm)	
H Width	132 in. (3353 mm)	
SAE capacity	3.75 cu. yd. (2.87 m ³)	
I Height (at ends)	39 in. (998 mm)	
Top of spill sheet (center section)	45 in. (1140 mm)	
J Blade angle, right and left	25 degrees	
K Angled width	121 in. (3073 mm)	
L Tilt	18 in. (467 mm)	
M Cut reach (with 30-in. [762 mm] shoes)	- 1 in. (- 25 mm)	
N Width over track	108 in. (2743 mm)	
O Cast reach (with 30-in. [762 mm] shoes)	13 in. (330 mm)	



Forestry Application

700H LT

700H LGP

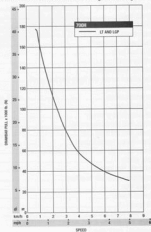
Available limb risers and screens for the rollover protective cab and canopy structures; John Deere-built, self-contained 4000S Winch* for versatile skidding and clearing operations

P	Overall length with 4000S Winch	208 in. (5283 mm)	215.3 in. (5467 mm)
Q	Additional length with 4000S Winch to (B)	30.5 in. (775 mm)	365 in. (775 mm)
	Additional length with 4000S fairlead to (P)	10 in. (254 mm)	10 in. (254 mm)
R	Overall height with limb risers	122 in. (3099 mm)	122 in. (3099 mm)

*See 4000S Winch specifications sheet.

Drawbar Pull

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



Undercarriage**700H LT****700H LGP**

John Deere Dura-Trax™ features large deep-heat-treated components; pins and bushings are sealed for life, rollers and idlers are permanently sealed and lubricated; full-length track frame covers reduce material buildup and ease clearing

Sprocket	segmented	segmented
Chain	sealed and lubricated	sealed and lubricated
Track shoes, each side	40	42
20-in. (508 mm) grouser width (closed center, single bar)		
Ground contact area	3,800 sq. in. (24 518 cm ²)	4,080 sq. in. (26 324 cm ²)
Ground pressure	6.8 psi (47 kPa)	6.5 psi (45 kPa)
22-in. (559 mm) grouser width (closed center, single bar)		
Ground contact area	4,180 sq. in. (26 969 cm ²)	4,488 sq. in. (28 957 cm ²)
Ground pressure	6.2 psi (43 kPa)	6.0 psi (41 kPa)
24-in. (610 mm) grouser width (closed center, single bar)		
Ground contact area		4,896 sq. in. (31 589 cm ²)
Ground pressure		5.6 psi (38 kPa)
30-in. (762 mm) grouser width (closed center, single bar)		
Ground contact area		6,120 sq. in. (39 486 cm ²)
Ground pressure		4.6 psi (31 kPa)
30-in. (762 mm) swamp shoes		
Ground contact area		6,120 sq. in. (39 486 cm ²)
Ground pressure		4.6 psi (31 kPa)
Ground clearance, minimum		
With single-bar grouser (excluding grouser height)	15 in. (381 mm)	15 in. (381 mm)
With swamp shoe (including grouser height)		17.6 in. (447 mm)
Length of track on ground	95 in. (2413 mm)	102 in. (2591 mm)
Track gauge, standard	70 in. (1778 mm)	78 in. (1981 mm)
Oscillation (at front idler)	7 in. (178 mm)	7.7 in. (196 mm)
Track rollers, each side	6	7
Carrier rollers, each side	1	1
Track pitch	6.91 in. (175.5 mm)	6.91 in. (175.5 mm)

Optional or Special Equipment

Add (+) or deduct (-) lb. (kg) as indicated to base weight for units with

20-in. (508 mm) track shoes	included in base	- 1,375 lb. (- 624 kg)
22-in. (559 mm) track shoes	222 lb. (101 kg)	- 1,100 lb. (- 499 kg)
24-in. (610 mm) track shoes	N/A	- 681 lb. (- 309 kg)
30-in. (762 mm) track shoes	N/A	included in base
30-in. (762 mm) swamp shoes	N/A	- 31 lb. (- 14 kg)
132-in. (3353 mm) blade for LT	140 lb. (63 kg)	included in base
All-hydraulic heavy-duty C frame (less blade)	- 1,730 lb. (- 784 kg)	- 1,870 lb. (- 848 kg)
Cab with heater	600 lb. (272 kg)	600 lb. (272 kg)
Cab with air conditioning	635 lb. (288 kg)	635 lb. (288 kg)
Canopy heater	26 lb. (12 kg)	26 lb. (12 kg)
Counterweight, front (each)	380 lb. (172 kg)	380 lb. (172 kg)
Deluxe seat group	20 lb. (9 kg)	20 lb. (9 kg)
Front tow hook	17 lb. (8 kg)	17 lb. (8 kg)
Fuel-fired coolant heater	12 lb. (5 kg)	12 lb. (5 kg)
Grille, extreme service with heavy-duty hose guard	112 lb. (51 kg)	112 lb. (51 kg)
Limb risers, arched	341 lb. (155 kg)	341 lb. (155 kg)
Rear screen, canopy	45 lb. (20 kg)	45 lb. (20 kg)
Rear screen, cab	91 lb. (41 kg)	91 lb. (41 kg)
Side screens (cab or canopy)	108 lb. (49 kg)	108 lb. (49 kg)
Screens, front and doors (canopy)	120 lb. (54 kg)	120 lb. (54 kg)
Screens, front and doors (cab)	151 lb. (68 kg)	151 lb. (68 kg)
Extreme-service rear tank guard	225 lb. (102 kg)	225 lb. (102 kg)
Extreme-service air-conditioning module guard	117 lb. (53 kg)	117 lb. (53 kg)
Lights, driving	3 lb. (1 kg)	3 lb. (1 kg)
Work lights, high intensity	9 lb. (4 kg)	9 lb. (4 kg)
Parallelogram ripper with three teeth	2,400 lb. (1088 kg)	2,400 lb. (1088 kg)
Retrieval hitch	68 lb. (31 kg)	68 lb. (31 kg)
Extended drawbar	195 lb. (88 kg)	195 lb. (88 kg)
Rock guards (4)	287 lb. (130 kg)	N/A
4000S John Deere Winch	1,437 lb. (652 kg)	1,437 lb. (652 kg)
Fairlead, four roller (for 4000S Winch)	187 lb. (85 kg)	187 lb. (85 kg)
Log arch (for 4000S Winch)	780 lb. (354 kg)	780 lb. (354 kg)

Additional Equipment

Key: ● Standard equipment ▲ Optional or special equipment

Engine

- 115-hp (86 kW) turbocharged, isolation mounted (L3 and L3P)
- Electric fuel shutoff with key start switch
- Oil-to-water engine oil cooler
- Vertical spin-on oil filter
- Vertical spin-on fuel filters with built-in separator
- Oil-ventilator dry air cleaner with built-in pre-cleaner and evacuator valve
- Above-hood pre-screen/vacpac
- ▲ External primary pre-cleaner
- Enclosed safety fan guard (conforms to SAE J1306)
- Coolant recovery tank
- Engine coolant to -34°F (-37°C)
- Blow-type cooling fan
- Trash-retainer screen-fine in radiator
- Under-hood muffler with vertical exhaust stack
- Pre-wired for other start aid
- ▲ Electric other start aid
- ▲ Radiator send screen (kit)
- ▲ Engine coolant heater, 1,000 watts, 110 volts
- ▲ Engine coolant heater, fuel fired
- ▲ Steel-brat fuel lines*
- ▲ Manual fuel shutoff*

Power Train Controls

- Dual-path hydraulic transmission
- Single-lever steering, speed, and direction control
- Decelerator pedal with automatic retardation
- Engine-speed selection lever
- Automatic tracking control
- Dynamic braking (anti-free wheel)
- Counterrotation
- Service-brake pedal
- Transmission neutral lock with safety start switch
- Spring-applied, hydraulic-released parking brake
- Independent transmission oil reservoir with sight glass
- Onboard diagnostics with visual code display
- Oil-to-air transmission oil cooler
- Built-in final drive seal guards
- Triple-reduction final drives with wet multi-disc brakes
- Maximum forward/reverse speed 5.0 mph (8.0 km/h)
- Selectable reverse speed ratio setting of 80, 100, 115, or 130% of forward speed
- ▲ Remote diagnostic test ports
- ▲ Reverse speed up to 4.6 mph (6.4 km/h) maximum*
- ▲ Forward and reverse speed set to 4.9 mph (8.4 km/h) maximum*
- ▲ Maximum forward/reverse speed increased to 6.0 mph (9.6 km/h)*

C-Frames and Blades

- Six-way all-hydraulic heavy-duty C-frame with infinitely adjustable blade pitch
- Remote C-frame pivot grease banks
- Corbels-covered hoses with conveniently replaceable lengths
- Straight and bits
- Blade, 120-in. (3053 mm), with heavy-duty C-frame (L1)
- Blade, 132-in. (3353 mm), with heavy-duty C-frame (L3P)
- Blade, 132-in. (3353 mm), with heavy-duty C-frame (L1)*
- ▲ Special blades and blade liners
- ▲ Full-height split shoes*
- ▲ Blade track grooves (32 in. [813 mm] and 120 in. [3053 mm])

Electrical (24-volt system)

- Fuse panel with blade-style multi-fused circuit breakers
- Nuts, electric (conforms to SAE J984, J1446)
- Reverse warning alarm (conforms to SAE J984, J1446)
- Fuel gauge, electric, illuminated
- Hourmeter, electric
- Transmission oil pressure gauge, illuminated
- Master electrical disconnect
- Positive battery terminal covers with battery cover
- By-pass start safety cover at starter
- Electronic monitor with visual and audible warning Annunciator / Hydraulic filter restriction / Transmission filter restriction / Transmission oil temperature / Coolant temperature (available) / Engine coolant temperature gauge / Engine oil

Electrical (continued)

- pressure (available) / Engine oil pressure gauge / Air electric restriction / Fasten seat belt / Park brake
 - Ground-speed selection display
 - Lead 12-volt low-maintenance batteries, 190-amp, reserve capacity, 950 CCA
 - Key-ring seated vibrator with cab or canopy
 - ▲ Power port, 12V, 20 amp, for phone and radio
 - ▲ Tachometer*
- ### Hydraulic System
- 25-gpm (fixed-displacement) hydraulic gear pump
 - ▲ Hydraulic pump with through-drive for winch or auxiliary pump
 - Low-effort T-bar blade control
 - Independent hydraulic reservoir with sight gauge
 - Vertical spin-on hydraulic filter
 - O-ring face seal hydraulic connectors
 - Three-function hydraulic valve
 - ▲ Four- and five-function valves with levers, without float
 - ▲ Four- and five-function valves with levers, with float*
 - ▲ Power-beyond section for front/rear attachments*
 - ▲ Rear auxiliary plumbing

Undercarriage

- 30-in. (778 mm) track gauges for L1 (95-in. [2413 mm]) track on ground
- 28-in. (708 mm) track gauge for L3P (102-in. [2601 mm]) track on ground
- Double-beverage rollers
- Oscillating track frame with pivoted front crossbar
- Full-length smooth-surface track frame covers
- Chain guides, front and rear (built-on)
- Fully protected track adjusters (gross adjustable)
- Segmented sprockets
- ▲ Sprocket track guides (built-on)
- ▲ Built-on full-length track-roller track guards
- ▲ Sanded and lubricated track chains
- 20-in. (508 mm) extreme-service, single-bar grouser (standard on LT, optional on L3P)
- ▲ 22-in. (569 mm) extreme-service, single-bar grouser for LT and L3P
- ▲ 24-in. (610 mm) extreme-service, single-bar grouser for L3P
- 20-in. (508 mm) extreme-service, single-bar grouser for L3P
- ▲ Stamping shoes, 36-in. (914 mm), self-cleaning pyramidal-shape
- ▲ Rubber or polymer track shoe pads*
- ▲ Open-center or special track shoes*

Lights

- Without lights
- ▲ Grille-mounted high-intensity lights (2), with rear light (1), halogen, 2,000 candlepower each
- ▲ High-intensity work lights, front (2) and rear (2), with steel guards, 30 watts each

Operator's Station

- Modular ROPS/TOPS canopy, isolation mounted (conforms to SAE J1946)
- ▲ Under-seat canopy heater, 30,000 Btu/hr
- ▲ Modular ROPS/TOPS cab, isolation mounted (conforms to SAE J1946) / Fresh air intake cab heater/dehumidifier/pressurizer, 16,000 Btu/hr with air pre-cleaner / Dome light / Deluxe interior with molded air ducts for heater, dehumidifier, and air conditioner / 30,000-Btu/hr under-seat heater / Front windshield and doors, wipers and washers / Tinted safety glass
- ▲ Air conditioning, 24,000 Btu/hr
- Right and left operator station entry
- Slip-resistant floor-mounting steps
- Ergonomically located handholds
- Headliner and Roomair
- Adjustable footrests and full-length armrests
- Built-in Operator's Manual storage
- Suspension vinyl seat (conforms to SAE J896); Fore and aft/weight and height combined adjustment / Adjustable leg support / Adjustable backrest angle / Adjustable lumbar support / Adjustable seatback extension / Seat belt, 3 in. (76 mm), retractable with CRS (conforms to SAE J2086)
- ▲ Deluxe comfort control mechanical suspension seat, vinyl or cloth (conforms to SAE J896); Fore and aft/weight and height combined adjustment / Adjustable leg support / Adjustable

Operator's Station (continued)

- backrest angle / Adjustable lumbar support / Adjustable seatback extension / Seat belt, 3 in. (76 mm), retractable with CRS (conforms to SAE J2086)
- ▲ Deluxe comfort control air suspension seat, vinyl or cloth (conforms to SAE J896); Fore and aft/weight and height combined adjustment / Adjustable leg support / Adjustable backrest angle / Adjustable lumbar support / Adjustable seatback extension / Seat belt, 3 in. (76 mm), retractable with CRS (conforms to SAE J2086)
- ▲ Seat belt, 3 in. (76 mm), retractable with CRS (conforms to SAE J2086)
- Rear window viewer and washer for cab
- Rear interior rearview mirror
- Rear attachment mirror (for cab only)
- Accessories: Convex wide-angle interior rearview mirror / Leg cushions (2) / Seat-side lockable storage box/hunch box/cup holder
- Rear window wiper and washer for cab
- Cam, AM/FM weatherband with digital clock and antenna
- Complete enclosure canopy-to-cab conversion panels*
- ▲ Rear-and-side-only enclosures available*
- ▲ Front windshield and doors endusers panel*
- ▲ Vinyl canopy enclosures, side, rear, and/or lower entry*
- ▲ Fire extinguisher*

Overall Vehicle

- One-piece unified construction mainframe
- Reinforced engine and mid-frame bottom guards
- Integral transmission guard
- Heavy-duty lowered grille
- Perforated engine side sheets
- Vented protection lock provisions for engine service access
- Cam, AM/FM weatherband reserve 60/60/60 Transmission reservoir 60/60/60 / Instrument panel
- Solid hood (painted gray for reduced glare)
- Lockable grease gun/wax storage compartment in right access door
- ▲ Environmental drains
- ▲ Chrome exhaust stack
- ▲ Trademarks/labels, French or Spanish
- ▲ Transport lift and tie-down rings*

Protection Packages

- ▲ Extreme-duty lowered grille and hose protection
- ▲ Limb flares, arched or point-to-point (built-on)
- ▲ Operator-protective rear screen (canopy or cab)
- ▲ Operator-protective side screens (canopy or cab)
- ▲ Operator-protective full-screen package (canopy or cab)
- ▲ Heavy-duty engine air-intake guard
- ▲ Extreme-service rear tank guard
- ▲ Air-conditioning module guard
- ▲ Lift cylinder guards
- ▲ Air intake guard

Attachments

- ▲ Counterweight, front, 380 lb. (172 kg)
- ▲ Counterweight, rear, 380 lb. (172 kg)
- ▲ Retrived hitch with pin
- ▲ Extended rigid drawbar with pin for pull-type implements
- ▲ Drawbar, extended for winch (with or without Fairlead)
- ▲ Ripper, parallelogram with five shock absorbers and three bells
- ▲ Winch, John Deere 4200SL, power in/fuse speed out
- ▲ Winch, John Deere 4200SL, power in/power out
- ▲ Winch, Carus or Allstar*
- ▲ Four-roller fairlead for winch
- ▲ Log anch for winch*
- ▲ Automatic blade control*
- ▲ Grapple, skidding*
- ▲ Root-clear blade attachment
- ▲ Root rollers in place of blade*
- ▲ Flotation plow*
- ▲ Front- or rear-mounted hydraulic winch*
- ▲ Water tanks for fire suppression*
- ▲ Pull-type choppers*
- ▲ Cable plows and side booms*
- ▲ Pull-type scraper and roller compactor*

Net engine power is with standard equipment including air cleaner, exhaust system, alternator and cooling fan, at standard conditions per SAE J1349 and J1348, with 90% throttle, 2100 rpm, 35.9°F ambient. No derating is required up to 13,000-ft (3962-m) altitude. Gross power is with out-cooling fan.

Specifications and design subject to change without notice. Wherever applicable, specifications are based on SAE standards, unless otherwise indicated. Equipment specifications are based on units with standard equipment, unless otherwise indicated. Full fuel tanks, and 175-lb. (79 kg) operator, 700M-LT units with 120-in. (3048 mm) blade and 20-in. (508 mm) track shoes, and 700M-L3P and with 132-in. (3353 mm) blade and 30-in. (762 mm) track shoes.

