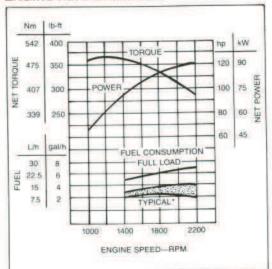


640D SKIDDER



ENGINE PERFORMANCE



^{*}Depending on operating variables

FEATURES

120 SAE net hp (90 kW) turbocharged John Deere diesel engine

Articulated-frame steering

Automotive-type, position-responsive steering

Oscillating front axle

Power Shift transmission

Hydraulic-powered differential lock on both axles

Enclosed, self-adjusting, wet-disk power

Hydraulically controlled winch

ADD VERSATILITY WITH:

Stacking blade

Trail-building blade

640D SKIDDER SPECIFICATIONS

Specifications and design are subject to change without notice. Wherever applicable, specifications are in accordance with SAE Standards. Except where otherwise noted, these specifications are based on a unit with 23.1-26, 10 PR, steel-ply tires, full fuel tank, 175-lb. (80 kg) operator and standard equipment.

Rated Power @ 2200 rpm:	SAE	DIN 70 020
Net	. 120 hp (90 kW)	90 kW
Gross	. 128 hp (95 kW)	
Net engine power is with standard equipment afternator and cooling fan at standard cooling		

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 70 020, using No.2-D fuel @ 35 API gravity. No derating is required up to 10,000 feet (3050 m) altitude. Gross power is without cooling fan.

Engine: John Deere 6-414T	
Type	4-stroke cycle, turbocharged diesel
Bore and stroke	4 19 x 5 00 in (106.5 x 127 mm)

Bore and stroke	19 x 5.00 in. (106.5 x 127 mm)
No. of cylinders	
Displacement	414 cu. in. (6.785 L)
Maximum net torque @ 1300 rpm	. 358 lb-ft (485 Nm) (50 kg-m)
Compression ratio	16.8 to 1
Cooling fan	
Lubrication Pr	essure system w/full-flow filter
Air cleaner w/restriction indicator and	d unloader valve Dry
Electrical system	. 12-volt w/42-amp alternator

Batteries (2) Reserve capacity: 320 minutes

Differentials:

Front and rear Full differentials with hydraulic lock

Engine Clutch Disconnect:

Hand-operated, spring-loaded, dry disk. Single plate, 12 in. (305 mm).

Transmission:

Power Shift with planetary gears, hydraulically actuated wet-disk clutches and brakes; provides 8 speeds forward, 4 reverse. Controlled by single lever on console. Air-to-oil cooler.

Travel Speeds: (2200 engine rpm, no tire slip)

	mph	km/h
Forward	 1.58-17.13	2.5-27.6
	 2.03- 5.76	3.3- 9.3

Drive Axles:

Four-wheel drive with inboard planetary gears on all axles. Front axle oscillates 15 degrees above and below horizontal. 21 in. (533 mm) travel at tire center line.

Power Steering:

Articulated frame hydraulically actuated by two double-acting cylinders with cushioned stops. Steering system has hydraulic pressure priority.

priority.						
Outside clearance circle w/o	blade .	38	ft.	4 in.	(11.68)	m)
Outside clearance circle w/bl	lade		1	7 in.	(12.07)	m)

Brakes:

Hydraulic System:

Hydraulic Cylinders:	Rod Dia.	Bore	Stroke
Blade lift cylinders (2) .	1.75 in.	4.00 in.	13.82 in.
A (0.040)	(44.5 mm)	(101.6 mm)	(351 mm)
Blade tilt cylinder (1)	2.25 in.	4.50 in.	3.00 in.
The same of the sa	(57.2 mm)	(114.3 mm)	(76.2 mm)
Steering cylinders (2)	1.75 in.	3.00 in.	15.75 in.
	(44.5 mm)	(76.2 mm)	(400 mm)
Cylinder rods are ground	heat-treated	chrome-plated	and polished.

Tires:

23.1-26, 10 PR, steel-ply, LS2 24.5-32, 12 PR, steel-ply, LS2 28L-26, 14 PR, steel-ply, LS2 30.5-32, 12 PR, steel-ply, LS2, dual bead 67 x 34.00-26, 10 PR, steel-ply tubeless, LS3

Capacities:	U.S.	Liters
Fuel tank	46.5 gal.	176
Cooling system	8.5 gal.	32.2
Engine lubrication including filter	20 gt.	18.9
Transmission-hydraulic system	9 gal.	34.1
Winch	12 gal.	45.4
Front differential	4.5 gal.	17
Rear differential	4.5 gal	17

Additional Standard Equipment:

S4 Series axles
Alternator warning light
Bottom guards
Canopy (ROPS) w/brush
screens and limb risers
Cushion seat w/suspension,
position adjustment and seat
belt
Engine oil pressure warning
light
Engine sideshields
Exhaust w/rain deflector
Gauges:

Exhaust w/rain deflector
Gauges:
Electric hourmeter
Engine coolant temperature
Fuel
Transmission oil temperature

Foot throttle
Heavy-duty starter
Hinge locking bar, 2-position
Horn
Integral log bumper
Key switch w/pushbutton safety
start
Log arch w/multiposition roller
Muffler
Parking brake w/warning light
and buzzer
Solid-state voltage regulator
Transmission oil pressure
warning light
Winch

SAE Operating Weight w/Stacking Blade . . . 20,180 lb. (9154 kg) SAE Operating Weight w/o Stacking Blade . . 18,815 lb. (8534 kg)

Winch:

Winch capacities*	
1/2-in. (12.7 mm) cable	569 ft. (173.4 m)
	373 ft. (114 m)
3/4-in. (19.1 mm) cable	263 ft. (80.2 m)
	189 ft. (58 m)
1-in. (25.4 mm) cable	
CONTRACT OF THE PARTY OF THE PA	

Calculated: No allowance made for loose or uneven spooling.

Arch:

Horizontal rollers 6 in. (152 mm) dia.

Vertical rollers 4.5 in. (114 mm) dia.

Working height (top of horizontal roller to ground): Adjustable to two positions.

Optional or Special Equipment:

S5 Series axles

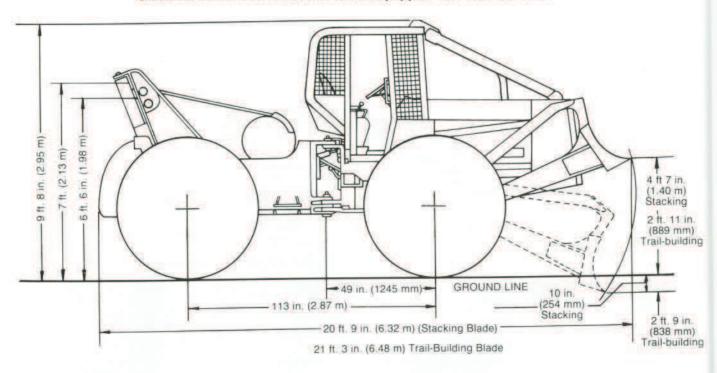
Cab (ROPS) w/noise treatment, windshield washer and wiper, limb risers

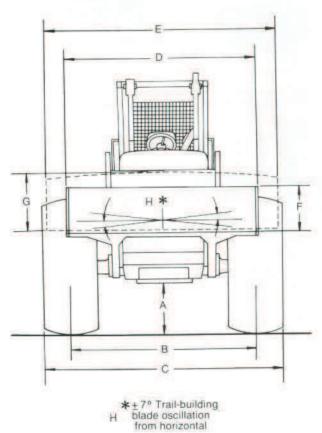
Cab heater

Canopy (ROPS) screened door, windshield and wiper, brush screens, right window, limb risers

Cold-weather starting package Emergency steering system (field only) Engine coolant heater (field only) Fire extinguisher
Hand throttle (field only)
Lights (field only)
Stacking blade
3-in. (76 mm) seat belt
Trail-building blade
Vandal protection (field only)
Windshield washer

Sideview dimensions are for skidder equipped with 23.1-26 tires.





TIRE	A GROUND CLEARANCE	B WHEEL TREAD	OVERALL WIDTH
23.1-26	19.2 in.	80.2 in.	8 ft. 8 in.
	(488 mm)	(2.04 m)	(2.64 m)
24.5-32	23.8 in.	84.2 in.	9 ft. 0.7 in.
	(605 mm)	(2.14 m)	(2.76 m)
28L-26	20 in.	87.5 in.	9 ft. 8 in.
	(508 mm)	(2.22 m)	(2.95 m)
30.5-32	24.4 in.	90.2 in.	9 ft. 11.6 in.
	(620 mm)	(2.29 m)	(3.04 m)
67 x 34.00-26	20.6 in.	97.5 in.	10 ft. 11.3 in.
	(523 mm)	(2.48 m)	(3.34 m)

D	E	F	G
WIDTH	WIDTH	HEIGHT	HEIGHT
Stacking	Trail-Building	Stacking	Trail-Building
7 ft. 2 in.	9 ft. 4 in.	1 ft. 9 in.	2 ft. 8 in.
(2.18 m)	(2.84 m)	(533 mm) Ends	(813 mm)
		2 ft. 4 in. (711 mm) Middle	

