

ENGINE

John Deere engineered and manufactured 7.6 liter diesel engine features a high-efficiency turbo-charger for maximum performance. Replaceable wet-type cylinder liners help ensure superior heat dissipation, longer engine life. High-strength alloy cylinder heads include replaceable valve seat inserts. Cast aluminum pistons reduce rod bearing loads and provide vital heat transfer; pistons are sprayed with cooling oil for longer engine life.

Engine: John Deere 6076T

Rated power at 2200 rpm.....	165 net hp (123 kW)
.....	173 gross hp (129 kW)
Turbocharger.....	standard
Cylinders.....	6
Displacement.....	466 cu. in. (7.638 L)
Fuel consumption, typical.....	3.4 to 5.0 gal./hr. (12.9 to 18.9 L/h)
Max. net torque rise	
35% at 1350 rpm.....	532 lb.-ft. (721 Nm)
Lubrication.....	pressure system with full-flow filter
Electrical system.....	12 volt with 78-amp alternator
Battery.....	reserve capacity 180 minutes

TRANSMISSION

The direct-drive power shift transmission is engineered and manufactured by John Deere specifically for skidders. Eight speeds in forward, four speeds in reverse. The transmission charge pump is externally mounted for easy servicing.

TRAVEL SPEEDS

At 2200 engine rpm, no tire slip, with 30.5-32 tires

	mph	(km/h)
Forward.....	1.7-18.8	2.8-30.3
Reverse.....	2.4-6.8	3.8-10.9

AXLES

Heavy-duty, inboard-mounted planetary-type final drives distribute shock loads evenly. Hydraulically-applied differential lock is standard equipment in both front and rear axles. Differential can either be locked for exceptional traction, or unlocked for easy maneuvering with less tire wear.

BRAKES

Hydraulic, annular-style wet-disk brakes are mounted inboard on both axles as standard equipment. Completely sealed and running in a cooling oil bath, they are self-adjusting, self-equalizing and need no periodic service. A spring-applied, hydraulically-released wet multi-disk parking brake is mounted on the transmission, and is automatically applied when the engine is off. This brake can be manually applied by placing the transmission control lever in the *park* position.

STEERING

The load- and speed-sensing power steering system delivers quick response and power for easy maneuvering in the woods. Its 90 degrees of frame articulation (45 degrees each direction) provide exceptional maneuverability.

Outside clearance circle with blade.....42 ft. 0 in. (12.8 m)

HYDRAULICS

The quick, responsive and powerful hydraulic system features an axial-piston, pressure-compensated pump and closed-center design. The hydraulic system is separate from the transmission, enhancing the overall reliability of both systems.

Pump flow at 2200 rpm.....38 gpm (143.8 L/min.)
3000 psi (20 684 kPa)

TIRES

24.5-32, 12 PR LS2
24.5-32, 16 PR LS2

30.5-32, 12 PR LS2
30.5-32, 16 PR LS2

WINCH

The optional John Deere-engineered and manufactured direct-drive 6000 Winch includes wet multi-disk clutch and spring-applied, hydraulically-released brake. The adjustable free-spool feature and low-friction drum seals increase ease of operation. All winch functions are controlled by a single conveniently-located lever.

Cable capacity - calculated - no allowance made for loose or uneven spooling

.625 in. (15.8 mm) cable.....373 ft. (114 m)
.75 in. (19.1 mm) cable.....263 ft. (80.2 m)
.875 in. (22.2 mm) cable.....189 ft. (58 m)
1 in. (25.4 mm) cable.....147 ft. (45 m)

Linepull at peak engine and .75 in. (19 mm) cable

Bare drum.....46,861 lb. (208 kN)
Full drum.....29,763 lb. (132 kN)

Line speed at 2200 rpm and .75 in. (19 mm) cable

Bare drum.....145 fpm (44.2 m/min.)
Full drum.....228 fpm (69.5 m/min.)

CAPACITIES

	U.S.	
Fuel tank.....	62 gal.	(234.7 L)
Cooling system.....	30 qt.	(28.4 L)
Engine lubrication, including filter.....	25 qt.	(23.7 L)
Transmission.....	7.75 gal.	(29.3 L)
Front differential.....	7.5 gal.	(28.4 L)
Rear differential.....	7.5 gal.	(28.4 L)
Winch, 6000.....	12 gal.	(45.4 L)
Hydraulic reservoir capacity.....	11 gal.	(41.6 L)

OPERATING WEIGHT

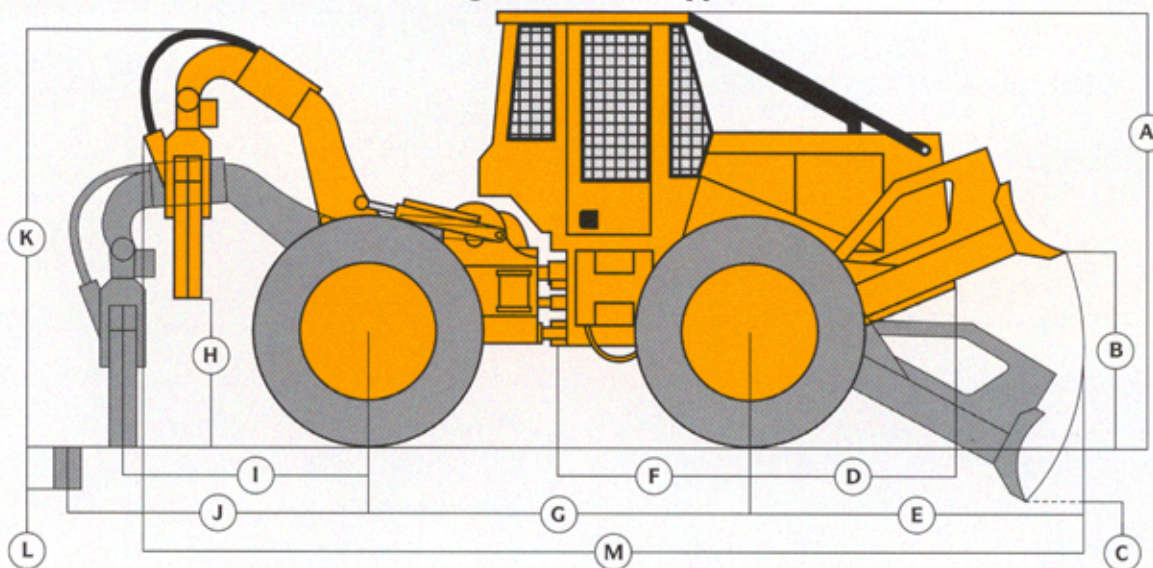
748E

(single function)	
with standard equipment.....	32,400 lb. (14 696 kg)
(dual function)	
with standard equipment.....	33,400 lb. (15 150 kg)

DIMENSIONS

Sideview dimensions are for skidder equipped with 30.5-32, 12 PR LS2 tires.

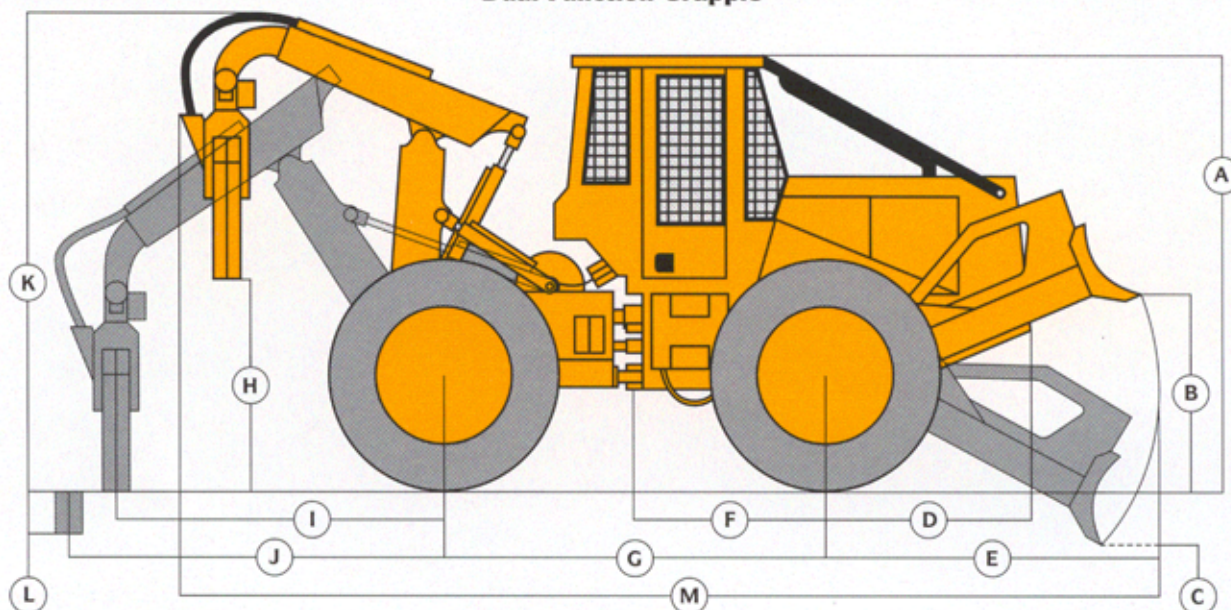
Single Function Grapple



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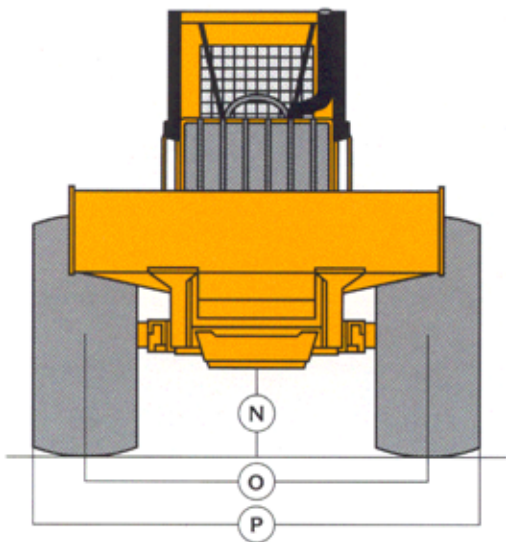
A Overall height.....	10 ft. 3 in. (3.13 m)
B Maximum blade lift above ground	4 ft. 11 in. (1.50 m)
C Maximum blade dig below ground	14 in. (356 mm)
D Front axle to front of machine	70 in. (1778 mm)
E Front axle to blade cutting edge arc.....	97 in. (2464 mm)
F Front axle to articulation joint.....	68 in. (1727 mm)
G Wheelbase.....	145 in. (3683 mm)
H Height of grapple from ground level.....	2 ft. 10 in. (863 mm)
I Reach of grapple at ground level.....	7 ft. 4 in. (2.24 m)
J Reach of grapple at full reach.....	7 ft. 12 in. (2.44 m)
K Maximum height of boom	10 ft. 10 in. (3.30 m)
L Below ground reach of grapple at full reach	38.9 in. (988 mm)
M Overall length.....	25 ft. 7.9 in. (7.82 m)

Dual Function Grapple

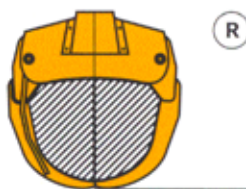
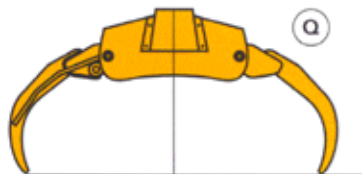
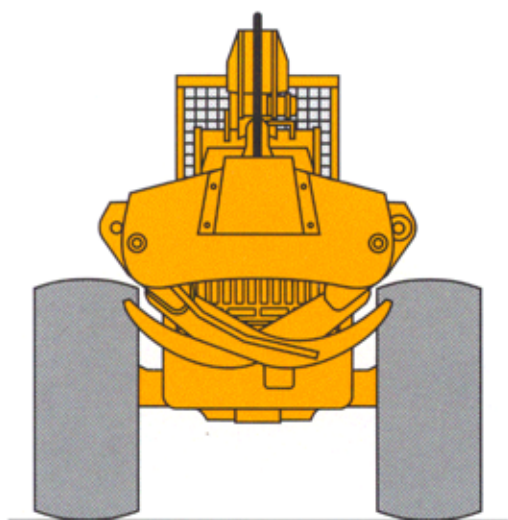


Key:

A through G	same as above
H Height of grapple from ground level.....	4 ft. 4 in. (1321 mm)
I Reach of grapple at ground level.....	5 ft. 1 in. (1.55 m)
J Reach of grapple at full reach.....	9 ft. 9 in. (2.97 m)
K Maximum height of boom	12 ft. 5 in. (3.78 m)
L Below ground reach of grapple at full reach	44 in. (1117 mm)
M Overall length.....	25 ft. 6 in. (7.77 m)



Tire Size	N Ground Clearance	O Wheel Tread	P Overall Width
24.5-32	22.9 in. (582 mm)	8 ft. 2 in. (2.49 m)	10 ft. 2.5 in. (3.11 m)
30.5-32	23.6 in. (599 mm)	8 ft. 1 in. (2.46 m)	10 ft. 7.5 in. (3.24 m)



	Single and Dual Function Grapple	Dual Function Grapple (Optional)
Q Tong opening at tips...120 in. (3048 mm)	120 in. (3048 mm)	125 in. (3175 mm)
R Enclosure area, tongs tip to tip	11.5 sq. ft. (1.07 m ²)	14.5 sq. ft. (1.35 m ²)
S Minimum diameter of stem	6 in. (152 mm)	8 in. (203 mm)