

## ENGINE

John Deere engineered and manufactured six-cylinder diesel engine. Replaceable wet-type cylinder liners ensure superior heat dissipation, longer engine life. High-strength alloy heads include replaceable valve seat inserts. John Deere engines are designed and manufactured with time-proven industry standard features that provide reliable service and long life.

**Engine:** John Deere 6466T  
 Rated power @ 2200 rpm ..... 155 SAE net hp (116 kW)  
 165 SAE gross hp (123 kW)  
 Turbocharged ..... standard  
 Number of cylinders ..... 6  
 Displacement ..... 466 cu. in. (7.638 L)  
 Fuel consumption, typical  
 (depending on duty cycle) ..... 4.0 to 7.5 gal/hr (15 to 28 L/h)  
 Net torque at 1400 rpm  
 (30% torque rise) ..... 480 lb-ft (651 Nm)  
 Lubrication ..... pressure system w/full flow filter and cooler  
 Aspirated air cleaner with  
 restriction indicator ..... dual element, dry  
 Electrical system ..... 24 volt with 42-amp (1120 W) alternator  
 Batteries ..... two 12-volt with 180 minute reserve capacity

## TRANSMISSION

Direct drive, planetary power shift transmission with modulated shift on-the-go speed selections in all eight forward and four reverse gears. There are five working speeds below 9 mph (15 km/h). Standard equipment also includes an inching pedal and tow disconnect.

### TRAVEL SPEEDS

(At 2200 engine rpm with 14.00-24 tires and no tire slip)

Shift Lever Position	Forward		Reverse	
	mph	(km/h)	mph	(km/h)
1	2.3	3.7	3.0	4.8
2	3.3	5.3	4.3	6.9
3	5.2	8.4	6.7	10.8
4	6.7	10.8	8.6	13.8
5	8.9	14.3		
6	11.5	18.5		
7	14.7	23.7		
8	25.2	40.6		

## FINAL DRIVE

Inboard-mounted planetary final drives are sealed in cool, filtered oil. The operator-controlled differential lock/unlock system allows the differential to easily be locked for maximum traction and unlocked for maneuverability in tight turns. Two-inch (51 mm) pitch tandem drive chains are sized for long life.

## BRAKES

Foot-operated hydraulic wet-disk power brakes are sealed in cool, filtered oil. They're self-adjusting and maintenance free. Standard equipment also includes a hand-operated, mechanical dry-disk parking brake. Both independent braking systems are effective on all four tandem wheels.

## FRONT AXLE

Heavy-duty, welded box construction  
 Front axle oscillation (total) ..... 32 degrees  
 Wheel lean (each direction) ..... 20 degrees

## STEERING

A John Deere innovation — all hydraulic power frame articulation provides maximum maneuverability and productivity. Crab steering reduces side drift, positions the tandems on firm ground and increases sideslope stability.

Frame articulation (both right and left) ..... 25 degrees  
 Minimum turning radius ..... 22 ft. 6 in. (6.86 m)

## HYDRAULICS

The closed-center hydraulic system uses a pressure-controlled variable-displacement single hydraulic pump. Integral hydraulic control valve lockouts eliminate cylinder drift. O-ring face seal and fittings eliminate hydraulic leaks.

Hydraulic pump ..... 6.0 cu. in. (98 cm<sup>3</sup>)  
 Rated flow at 2200 engine rpm ..... 52.4 gpm (198 L/min)

## TIRES AND RIMS

Tire Size	Wheel Tread		Overall Width		Ground Clearance (Front Axle)
	Front	Rear	Front	Rear	
13.0-24 9 in. rim (229 mm)	76.60 in. (1.94 m)	79.60 in. (2.02 m)	7 ft. 10 in. (2.39 m)	7 ft. 10 in. (2.39 m)	22 in. (559 mm)
14.00-24 10 in. rim (254 mm)	76.60 in. (1.94 m)	79.60 in. (2.02 m)	8 ft. (2.44 m)	8 ft. (2.44 m)	22.5 in. (572 mm)
17.5-25 14 in. rim (356 mm)	79.40 in. (2.02 m)	82.40 in. (2.09 m)	8 ft. 6 in. (2.59 m)	8 ft. 6 in. (2.59 m)	23.2 in. (589 mm)

## CAPACITIES

**U.S.**

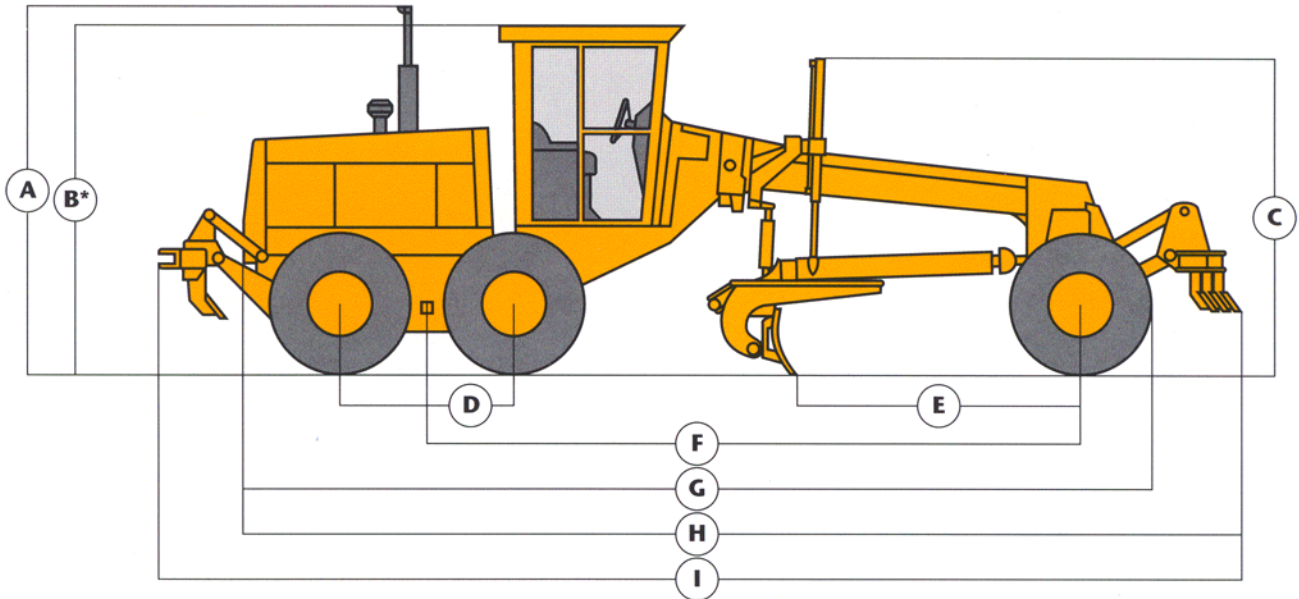
Fuel tank ..... 90 gal. (340 L)  
 Cooling system ..... 7 gal. (26.5 L)  
 Engine lubrication, including filter ..... 26 qt. (24.6 L)  
 Transmission and hydraulic system (refill) ..... 23 gal. (87 L)  
 Tandem housings (each) ..... 5 gal. (18.9 L)  
 Circle gearbox ..... 4 qt. (3.8 L)

## OPERATING WEIGHTS

SAE 772B	On Front Wheels	On Rear Wheels	Total
With standard equipment	9,400 lb. (4263 kg)	23,050 lb. (10 454 kg)	32,450 lb. (14 717 kg)
With standard equipment and scarifier	11,390 lb. (5166 kg)	22,790 lb. (10 336 kg)	34,180 lb. (15 502 kg)
With standard equipment, scarifier and ripper	10,650 lb. (4830 kg)	26,080 lb. (11 828 kg)	36,730 lb. (16 658 kg)

Typically equipped operating weights range up to 38,925 lb. (17 653 kg)

# DIMENSIONS



## Key

A	Height to top of exhaust	10 ft. 4.5 in. (3.16 m)
B	Height to top of cab	10 ft. 1.5 in. (3.09 m)
C	Height to top of blade lift cylinders	9 ft. 8 in. (2.95 m)
D	Tandem axle spacing	5 ft. 0.7 in. (1.54 m)
E	Bladebase	8 ft. 9 in. (2.67 m)
F	Wheelbase	19 ft. 7 in. (5.97 m)
G	Overall length	27 ft. 11 in. (8.51 m)
H	Overall length with scarifier	30 ft. 3 in. (9.22 m)
I	Overall length with scarifier and ripper	32 ft. 7 in. (9.93 m)

\*Add 8.3 in. (210 mm) for full height cab  
Add 1.0 in. (25.5 mm) for cab with air conditioning

## BLADE FUNCTION

All hydraulic, industry preferred hand lever placement of blade function controls (standard equipment). Blade lift controls include a float position. Conversion from two-hand to one-hand control is easily accomplished. Seven blade lift arm positions provide excellent blade positioning capabilities. Blade components are fully adjustable.

### BLADE RANGE

Lift above ground	18.5 in. (470 mm)
Blade side shift, right or left	26.9 in. (683 mm)
Shoulder reach outside wheels (frame straight):	
Right	83.0 in. (2.11 m)
Left	85.0 in. (2.16 m)
Pitch at ground line	49 deg. forward 5 deg. back

## MAINFRAME

Welded box construction	
Width, minimum	12.07 in. (306.5 mm)
Height, minimum	10.63 in. (270 mm)
Thickness, sides	0.63 in. (16 mm)
top and bottom	1.00 in. (25 mm)
Weight per ft., minimum	118 lb/ft (175.5 kg/m)
Minimum vertical section modulus	117 in <sup>3</sup> (1917 cm <sup>3</sup> )
Average vertical section modulus at saddle	149 in <sup>3</sup> (2448 cm <sup>3</sup> )

## DRAWBAR

Welded box construction machined for flatness with double ball and socket pivot connection and replaceable wear inserts.

## CIRCLE

Welded construction, heat-treated for strength and machined for flatness with replaceable wear inserts.

Circle diameter	60 in. (1.52 m)
Rotation	360 degrees
Drive	hydraulic motor and worm gear with positive position lock
Sideshift, right	28.5 in. (724 mm)
left	31.0 in. (787 mm)

## MOLDBOARD

High strength, wear resistant high carbon steel with replaceable side shift wear inserts.

Length	12 ft. (3.65 m)
Height	24 in. (610 mm)
Thickness	0.88 in. (22 mm)

## CUTTING EDGE

Dura-Max® through hardened steel

Thickness and width	0.62 x 6.0 in. (16 x 150 mm)
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## FRONT-WHEEL DRIVE

Another John Deere innovation—automatic front-wheel drive increases tractive effort and front-end control in all working conditions. System includes a variable displacement pump, reversible wheel motors, flow divider, free-wheel at transport speeds and operator controlled, 15-position rotary aggressiveness switch.

**Standard system:** effective in gears 1-4

Hydraulic pump ..... 5.30 in<sup>3</sup> (83 cm<sup>3</sup>)  
Wheel motors ..... 2.03 in<sup>3</sup> (33 cm<sup>3</sup>)

**Optional high speed system:** effective in gears 1-6

Hydraulic pump ..... 6.00 in<sup>3</sup> (98 cm<sup>3</sup>)  
Wheel motors ..... 2.03 in<sup>3</sup> (33 cm<sup>3</sup>)

## SCARIFIER

V-type manual three-pitch position with hydraulic float

Width of cut ..... 4 ft. (1.22 m)  
Number of teeth ..... 5 standard, 9 optional  
Lift above ground ..... 21.8 in. (554 mm)  
Maximum penetration ..... 13.3 in. (338 mm)  
Shank size ..... 1 x 3 in. (25 x 76 mm)

## RIPPER

Parallelogram linkage with electric valve control

Width of cut ..... 8 ft. (2.44 m)  
Number of shanks ..... 3 standard, 5 optional  
Lift above ground ..... 14.5 in. (368 mm)  
Maximum penetration ..... 14 in. (356 mm)  
Shank size ..... 2 x 5 in. (51 x 127 mm)

## ADDITIONAL STANDARD EQUIPMENT

Articulation indicator  
Cab, low profile with ROPS,  
cushioned vinyl seat and  
seat belt.  
Dual-level monitor system  
First level warning:  
(Red STOP light, audible  
alarm and white function  
indicator light)  
Low engine oil pressure  
Very high engine coolant  
temperature

Low brake pressure  
Very high transmission  
temperature  
Engaged park brake (in gear)  
Second level warning:  
(Yellow CAUTION light  
and white function  
indicator light)  
Restricted engine air filter  
Low electrical voltage  
High transmission  
temperature

Low transmission clutch  
pressure  
Restricted transmission  
filter  
Restricted hydraulic filter  
Disengaged lift arm lock  
Function indicator only:  
(Green function  
indicator light)  
Engaged differential lock  
Turn signals  
Hazard warning signals

Engine air precleaner  
Front windshield wiper  
Fuel gauge  
Horn  
Hourmeter  
Lights, driving  
Lights, stop and tail  
Mirror, rearview, inside  
Mirrors, outside, rearview,  
convex, both sides  
Reverse warning alarm  
Tow disconnect  
Turn signals/hazard  
warning lights

## OPTIONAL OR SPECIAL EQUIPMENT WITH APPROXIMATE WEIGHTS

(Add these weights to SAE standard equipment operating weight to obtain total operating weight.)

	lb.	kg		lb.	kg
Air conditioner with heavy-duty alternator	177	80	Mirrors, outside, rearview, convex, both sides	12	5
Alternator, 50-amp (1400 W)	17	8	Moldboard w/through hardened Dura-Max cutting edges:		
Auxiliary function valve (rear mounted)	50	23	12-ft. (3.66 m) w/.88 x 8 in. (19 x 203 mm) cutting edge	106	48
Batteries, heavy-duty with 320 min. (1000 CCA) reserve capacity	101	46	14-ft. (4.27 m) w/.62 x 6 in. (16 x 152 mm) cutting edge	146	66
Beacon wiring and switch	2	1	14-ft. (4.27 m) w/.88 x 8 in. (19 x 203 mm) cutting edge	155	70
Blade, front dozer	1490	676	Moldboard extensions, 2-ft. (610 mm), right or left (less cutting edge)	220	100
Bottom guard, general purpose	160	73	Overlay end bits (1 pair), 6 in. (152 mm)	62	28
Bottom guard, heavy-duty with rear hitch	510	231	Overlay end bits (1 pair), 8 in. (203 mm)	77	35
Cab, full height with ROPS	82	37	Rear hitch	61	28
Canopy, low profile with ROPS	-226	-103	Rims for 17.50-25 tires	674	306
Cold-weather starting aid	3	1	Ripper, rear mounted with hitch and 3 shanks	2470	1120
Control conversion (moves LH blade control to RH side)	2	1	Scarifier with five teeth, 1 x 3 in. (25 x 76 mm)	1730	785
Dura-Max through-hardened cutting edge, ¾ x 8 in. (19 x 203 mm)	8.5 lb/ft (13 kg/m)		Seat belt, 3-in. (76 mm)	3	1
Engine side shields	60	27	Seat, deluxe suspension, cloth covered	90	41
Fan, defroster	4	2	Seat, deluxe suspension, vinyl covered	90	41
Fans, dual defroster	8	4	Tires:		
Heater, coolant	2	1	13.00-24, 12 PR, G2	-210	-95
Heater, cab, 20,000 Btu/hr (5.9 kW)	16	7	17.5-25, 12 PR, L2	+258	+117
Heater, cab, 40,000 Btu/hr (11.7 kW)	31	14	Toolbox	11	5
Heater, roof-mounted, 25,000 Btu/hr (7.3 kW) (add to air conditioner)	17	8	Washer, front and rear windshield	15	7
Lights, 2 blade	4	2	Weight, front	600	272
Lights, work, 2 front/2 rear floods	12	5	Wiper, rear window	5	2
Mat, floor	9	4	Wipers, lower front windows	7	3

## ADDITIONAL AVAILABLE EQUIPMENT\*

Automatic blade controls  
Compactors  
Dozer blades  
Fenders

Grade and slope indicators  
Push blocks  
Slopers

Snow plows and wings  
Tire chains  
Windrow eliminators

\*See your John Deere dealer for further information

## JOHN DEERE 'BEST VALUE' EXTRAS

**Best parts support**—Twelve regional parts depots in North America and others around the world put parts support near your job no matter where in the world it is.

A computerized FLASH™ parts locating system linking these depots to dealerships can find out-of-stock parts in a hurry and get them into your hands fast. Usually within 24 hours.

**Best service backup**—Dealer service technicians are regularly schooled, at our modern facility in Davenport, Iowa, or by professionals in the field, to diagnose quickly and repair efficiently.

If they're stumped, a phone call to DTAC (Dealer Technical Assistance Center), puts them in touch with a staff of pros at the factory who help them find a solution quickly.

**Best dealers**—Your John Deere dealer has made a significant commitment to being the best equipment supplier you can work with.

This is a dollars-and-cents commitment in parts inventory, in service facilities, in field service trucks. It's a sweat-and-

blood commitment in dedicated, skilled and highly trained and motivated personnel in each and every department at the dealership.

But what sets John Deere dealers apart from all the rest is something more, a factor somewhat difficult to measure . . . a caring attitude, and a sincere desire to be the best at meeting the needs of each individual customer.

**John Deere Finance Plans**—Whether you rent, lease or buy John Deere equipment, your dealer can explain the John Deere options available. One-stop options that let you free up operating capital, keep other lines of credit open.

**Best warranty protection**—All John Deere construction equipment has a 6-month warranty on the entire machine and a full 24-month warranty on the power train. The SECURE® program, a John Deere service product, is offered for repair coverage after warranty concludes. Full machine or power train coverage is available for a variety of time periods to meet your needs. Your dealer will explain the details.



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 at 35 API gravity. No derating is required up to 10,000 feet (3050 m) altitude. Gross power is without cooling fan.

Specifications and design 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 14.00-24, 12 PR tubeless tires, 12-ft. (3.65 m) moldboard with .62 x 6-in. (16 x 150 mm) cutting edge, and standard equipment. Weights include lubricants, coolants, full fuel tank and 175 lb. (79 kg) operator.

