

S C R A P P E R S

# 762B 862B SERIES-II





*Planetary powershift transmission features a two-phase single-stage torque converter. Lock the torque converter in gears three through six for faster haul speeds and better fuel efficiency.*



*Spring-applied, hydraulically released, caliper-disk parking brake ensures safe operation. Positive dead-engine stops are provided by a split braking system (front and rear) with two accumulators.*

*Heavy-duty planetaries and brakes are inboard mounted, so component size isn't limited by the diameter of the wheels. All-hydraulic, wet-disk brakes are self-adjusting and self-equalizing for long life.*



*The bowl is reinforced with heavy-gauge steel. The sliding floor rides on heat-treated, replaceable rails for outstanding durability. Scraper axles are independently adjustable to allow precise alignment of the vertical cutting edge.*

*Strong structures provide outstanding reliability and improved plumbing protection. The bowl's higher gate virtually eliminates rear spillage. Integral rear push block protects fuel tank and tires.*



*The sophisticated monitor/alarm system keeps tabs on 11 vital machine functions. Both visible and audible alarms tell you if there's a problem.*

*The cab features an air suspension seat with nearly nine inches of travel. Weight and height adjustments are independent of dampening adjustment. The steering column adjusts to your personal specifications.*





*The 762B has a new load-sensing, pressure-compensated hydraulic pump for shorter cycle times and smoother operation.*

*Responsive automotive-type steering makes fine-grading and high-speed transport almost effortless.*



## A NEW BREED OF POWER ... POWERTECH™ ENGINE

EPA-certified to comply with new stricter air-quality standards, the new PowerTech engine in the 762B offers much more than cleaner air. It's also quieter and smoother. The redesigned, highly efficient cooling system provides maximum airflow, which lets it run at higher temperatures. Plus, the PowerTech engine weighs less than the previous model to give you a better horsepower-to-weight ratio and outstanding fuel efficiency.

Below are more ways this new breed of power pushes the 762B to a higher level of productivity.

*New Poly-vee fan drive has twice the capacity of dual-vee fan drives for more efficient cooling.*



*A new cylinder head design increases airflow for more lugging power, lower fuel consumption, and less emissions.*

*The redesigned cylinder block is stronger and lighter. The lower end has seven main-crankshaft bearing supports for long life and quiet performance.*



*John Deere's exclusive sealed-and-lubricated chain gives you twice the wear of standard chain. High-tensile-strength-steel elevator flights resist bending. Massive elevator and drive components provide an aggressive loading action.*

*The hydrostatic elevator gives infinite speed control and high chain force. The 762B's internal pressure override system reduces power loss under rear stall conditions. Chain sidebars, pins, and rollers are through-hardened for extended life.*



*Low-traction conditions are no problem with a Max-Trac-equipped 762B Scraper.\* With the push of a pedal, the 762B becomes the only elevating scraper in its class with four-wheel drive.*



*Because of their unique dove-tailed design, Jagz™ interlocking edges let you custom-build a wear surface on the bowl. Jagz are reversible and interchangeable for enhanced versatility and long, even wear.*

\* Developed by Vermeer Manufacturing Company specifically for the 762B.

ENGINE	762B	862B		
Type	John Deere 6081AT001 with aftercooler and turbocharger	John Deere 6101A with aftercooler and turbocharger		
Rated power	180 SAE net hp (134 kW) / 190 SAE gross hp (142 kW) @ 2,100 rpm	268 SAE net hp (200 kW) / 282 SAE gross hp (210 kW) @ 2,100 rpm		
Cylinders	6	6		
Displacement	496 cu. in. (8.18 L)	619 cu. in. (10.145 L)		
Fuel consumption, typical	5.2 to 6.3 gal./hr. (19.7 to 23.8 L/h)	7.0 to 10.0 gal./hr. (26.5 to 37.8 L/h)		
Maximum net torque	656 lb.-ft. (890 Nm) @ 1,200 rpm (41% torque rise)	1,125 lb.-ft. (1525 Nm) @ 1,200 rpm (56% torque rise)		
Lubrication	pressure system with full-flow spin-on filter	pressure system with full-flow spin-on filter		
Air cleaner	dual stage dry type with safety element, aspirated pre-cleaner, and restriction indicator included in dash-mounted monitor	dual stage dry type with safety element, aspirated pre-cleaner, and restriction indicator included in dash-mounted monitor		
Electrical system	24 volt with 80-amp alternator	24 volt with 80-amp alternator		
Batteries (two 12 volt)	reserve capacity: 160 min.	reserve capacity: 160 min.		
<b>TRANSMISSION</b>	planetary power shift with two-phase single-stage torque converter, which can be locked up in gears three through six for faster haul speeds and better fuel efficiency; optional microprocessor-controlled transmission with automatic torque converter lockup also available			
Travel speeds @ 2,100 rpm*	Forward	Reverse	Forward	Reverse
Gear 1	2.7 mph (4.3 km/h)	4.5 mph (7.2 km/h)	3.0 mph (4.8 km/h)	5.0 mph (8.0 km/h)
Gear 2	3.8 mph (6.1 km/h)		4.3 mph (6.9 km/h)	
Gear 3	4.9 mph (7.9 km/h)		5.5 mph (8.9 km/h)	
Gear 4	7.0 mph (11.3 km/h)		7.8 mph (12.6 km/h)	
Gear 5	13.9 mph (22.4 km/h)		15.6 mph (25.1 km/h)	
Gear 6	25.4 mph (40.9 km/h)		28.5 mph (45.9 km/h)	
*762B is equipped with 23.5-25 tires; 862B is equipped with 26.5-25 tires.				
<b>DRIVE AXLE</b>	inboard-mounted planetary final drives sealed in cool, filtered oil, protected from contamination; operator-controlled, pedal-actuated differential lock/unlock system can be engaged and disengaged on the go; system delivers maximum traction when locked, maximum maneuverability with reduced tire wear when unlocked; optional suspension axle system also available on the 862B			
Reduction ratio	30.58 to 1		22.22 to 1	
Lubrication and differential lock actuation	5.2 gpm (19.8 L/min.) gear pump		4.4 gpm (16.7 L/min.) gear pump	
<b>BRAKES</b>	hydraulic, power-actuated, split-circuit system delivers positive stopping power with low maintenance requirements			
Tractor brake system	adjustment free wet disk; sealed in cool, filtered oil		adjustment free wet disk; sealed in cool, filtered oil	
Scraper brake system	self-adjusting, wheel mounted, expanding shoe		self-adjusting, wheel mounted, expanding shoe	
Parking brake	spring-applied, hydraulically released caliper disk; dead-engine braking provided by hydraulic accumulator		spring-applied, hydraulically released caliper disk; dead-engine braking provided by hydraulic accumulator	
<b>STEERING</b>	improved position-responsive power steering provides smooth, low effort control during loading and high-speed transport; steering column tilts and telescopes to adapt to operator height and weight; gear shift and bowl, floor and elevator levers within easy grasp; frame articulation driven by dual steering cylinders			
Frame articulation	180 degrees		180 degrees	
Turning radius (180-degree turn)	30 ft. (9.14 m)		32 ft. 5 in. (9.90 m)	
<b>HYDRAULIC SYSTEM</b>	load-sense, pressure-compensated hydraulic system uses variable-displacement pump for steering, brakes, and all other non-elevator functions for the 762B; closed-center system uses variable-displacement, constant-pressure pump for steering, brakes, and all other non-elevator functions for the 862B; all systems protected with 10-micron spin-on filters; infinitely variable hydrostatic elevator generates chain pull forces, making stalling virtually impossible; elevator speeds can be adjusted to match all ground speeds and materials			
Tractor system pressure	2,350 psi (16,203 kPa)		2,350 psi (16,203 kPa)	
Variable-displacement axial piston pump	4.8 cu. in. (75 cm <sup>3</sup> )		8.0 cu. in. (130 cm <sup>3</sup> )	
Main pump rated flow	40.4 gpm (153 L/min.) @ 2,100 rpm		63.0 gpm (239 L/min.) @ 2,100 rpm	
Charge pump rated flow	naturally aspirated, charge pump not required		20.3 gpm (77 L/min.) @ 2,100 rpm	
Elevator system pressure	5,000 psi (34,475 kPa)		5,000 psi (34,475 kPa)	
Variable-displacement axial piston pump	1.6 cu. in. (25.3 cm <sup>3</sup> )		5.43 cu. in. (89 cm <sup>3</sup> )	
Fixed-displacement axial piston motor	3.89 cu. in. (63.7 cm <sup>3</sup> )		5.43 cu. in. (89 cm <sup>3</sup> )	
Elevator pump rated flow	40.6 gpm (153.7 L/min.) @ 2,100 rpm		53.5 gpm (202 L/min.) @ 2,100 rpm	
<b>ELEVATOR</b>	fully reversible, hydrostatic-drive elevator system with triple gear reduction on the 762B and heavy-duty planetary reduction on the 862B provides complete operator control; durable components help ensure long system life; split sprocket makes chain servicing easy; optional extended-life sealed chain also available			
Maximum chain pull	17,165 lb. (7786 kg)		18,600 lb. (8435 kg)	
Forward speed, infinitely variable	0-207 ft./min. (0-63 m/min.)		0-240 ft./min. (0-73 m/min.)	
Reverse speed, infinitely variable	0-103 ft./min. (0-32 m/min.)		0-120 ft./min. (0-37 m/min.)	
Number of flights	18		23	
Spacing of flights	12.4 in. (316 mm)		12.5 in. (318 mm)	
Width of flights	5 ft. 7 in. (1.70 m)		6 ft. 6 in. (1.98 m)	
Length (top to bottom)	9 ft. 6 in. (2.90 m)		12 ft. (3.66 m)	
<b>BOWL</b>	reinforced with heavy-gauge steel; sliding floor rides on heat-treated replaceable rails; cutting edge retracts with the floor; independently adjustable scraper axles allow precise alignment of vertical cutting edge; replaceable three-section high-carbon-steel cutting edge is reversible; center section vertically adjustable by 2 in. (51 mm)			
<b>Heaped capacity</b>	<b>11.5 cu. yd. (8.8 m<sup>3</sup>)</b>		<b>17.0 cu. yd. (13.0 m<sup>3</sup>)</b>	
Overall width (three sections)	7 ft. 6 in. (2.29 m)		8 ft. 10 in. (2.69 m)	
Dimensions, center section	0.75 x 10 x 54 in. (19 x 254 x 1372 mm)		1 x 13 x 66 in. (25 x 330 x 1676 mm)	
Dimensions, end section	0.75 x 10 x 18 in. (19 x 254 x 457 mm)		1 x 13 x 20 in. (25 x 330 x 508 mm)	
<b>TIRES</b>	Choice of.....23.5-25, 16 PR E2 / 23.5-25, XHAT steel cord radials			
Wheel tread	26.5-25, 24 PR E2 / 29.5-25, 22 PR E2 / 29.5-25, XHAT steel cord radials			
23.5-25, 16 PR E2 tires	71.70 in. (1.82 m) front and rear			
26.5-25, 24 PR E2 tires	77.01 in. (1.96 m) front / 83.39 in. (2.12 m) rear			
29.5-25, 22 PR E2 tires	81.76 in. (2.08 m) front / 88.14 in. (2.24 m) rear			

# SPECIFICATIONS / DIMENSIONS

## CAPACITIES

### Drain and refill

	762B	862B
Fuel tank	87 gal. (329 L)	110 gal. (416 L)
Engine coolant	36 qt. (34 L)	14 gal. (52 L)
Engine oil including filter	30 qt. (28.5 L)	9 gal. (34 L)
Transmission including filter	13 gal. (49 L)	19 gal. (72 L)
Differential case	8.25 gal. (31.2 L)	7.5 gal. (28 L)
Hydraulic system reservoir	22 gal. (83 L)	24 gal. (91 L)
Elevator gear case	13 qt. (12 L)	9.5 qt. (9 L)

## OPERATING WEIGHTS

### Empty

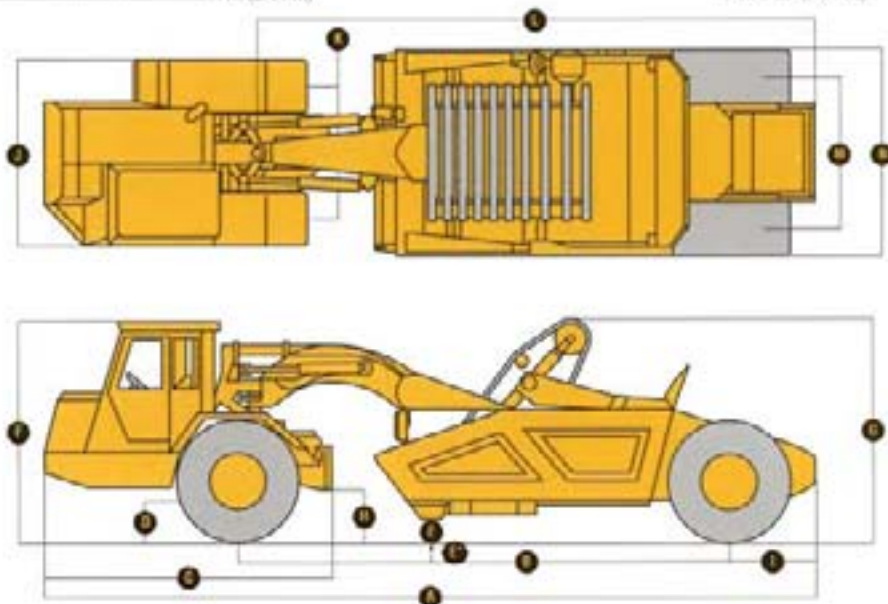
Drive axle	22,900 lb. (10,385 kg)	30,800 lb. (13,968 kg)
Scraper axle	12,700 lb. (5,760 kg)	18,250 lb. (8,277 kg)
Total	35,600 lb. (16,145 kg)	49,050 lb. (22,245 kg)

### Loaded

Drive axle	32,200 lb. (14,603 kg)	44,900 lb. (20,363 kg)
Scraper axle	31,000 lb. (14,059 kg)	44,950 lb. (20,385 kg)
Total	63,200 lb. (28,662 kg)	89,850 lb. (40,748 kg)

## DIMENSIONS

<b>A</b> Bowl at ground level	33 ft. 7 in. (10.24 m)	37 ft. 1 in. (11.31 m)
Bowl up	33 ft. (10.06 m)	36 ft. 5 in. (11.10 m)
Bowl level	33 ft. 3 in. (10.14 m)	36 ft. 9 in. (11.20 m)
<b>B</b> Bowl at ground level	21 ft. 1 in. (6.42 m)	23 ft. 4 in. (7.11 m)
Bowl up	20 ft. 4.5 in. (6.21 m)	22 ft. 5 in. (6.84 m)
Bowl level	20 ft. 6 in. (6.25 m)	22 ft. 11 in. (6.98 m)
<b>C</b> Bowl at ground level	13 ft. (3.97 m)	14 ft. 2 in. (4.33 m)
Bowl up	13 ft. 1.5 in. (4.00 m)	14 ft. 4 in. (4.37 m)
Bowl level	13 ft. 0.5 in. (3.98 m)	14 ft. 3 in. (4.35 m)
<b>D</b> Axle clearance		
Bowl at ground level	18.5 in. (470 mm)	19 in. (483 mm)
Bowl up	18.5 in. (470 mm)	19 in. (483 mm)
Bowl level	18.5 in. (470 mm)	19 in. (483 mm)
<b>E</b> Bowl up	18.7 in. (474 mm) without teeth	19 in. (483 mm) without teeth
	16.4 in. (417 mm) with teeth	16 in. (406 mm) with teeth
Bowl level	11.6 in. (295 mm) without teeth	7 in. (178 mm) without teeth
	8.9 in. (226 mm) with teeth	4 in. (102 mm) with teeth
<b>F</b> Cut below ground level	7.1 in. (180 mm) without teeth	9 in. (229 mm) without teeth
	10.3 in. (262 mm) with teeth	11.9 in. (302 mm) with teeth
<b>G</b> Bowl at ground level	10 ft. 2.5 in. (3.11 m)	10 ft. 7 in. (3.22 m)
Bowl up	9 ft. 10 in. (2.99 m)	10 ft. 3 in. (3.13 m)
Bowl level	9 ft. 11.5 in. (3.04 m)	10 ft. 4 in. (3.15 m)
<b>H</b> Bowl at ground level	8 ft. 5.5 in. (2.58 m)	10 ft. 2 in. (3.09 m)
Bowl up	9 ft. 3 in. (2.82 m)	11 ft. 2 in. (3.40 m)
Bowl level	8 ft. 9.5 in. (2.68 m)	10 ft. 8 in. (3.25 m)
<b>I</b> Bowl at ground level	17.3 in. (440 mm)	20.7 in. (527 mm)
Bowl up	22.4 in. (570 mm)	26 in. (662 mm)
Bowl level	19.2 in. (488 mm)	23.9 in. (607 mm)
<b>J</b> Bowl at ground level	4 ft. 2.5 in. (1.28 m)	4 ft. 8 in. (1.43 m)
Bowl up	4 ft. 5 in. (1.35 m)	4 ft. 9 in. (1.44 m)
Bowl level	4 ft. 5 in. (1.35 m)	4 ft. 9 in. (1.44 m)
<b>K</b> Width - tractor	8 ft. (2.44 m)	8 ft. 8 in. (2.64 m)
<b>L</b> Track - tractor	5 ft. 11.7 in. (1.82 m)	6 ft. 5 in. (1.96 m)
<b>M</b> Bowl level	24 ft. 2 in. (7.37 m)	25 ft. 8.9 in. (7.85 m)
<b>N</b> Track - bowl	5 ft. 11.7 in. (1.82 m)	6 ft. 11 in. (2.12 m)
<b>O</b> Width - bowl	8 ft. (2.44 m)	9 ft. 6 in. (2.90 m)



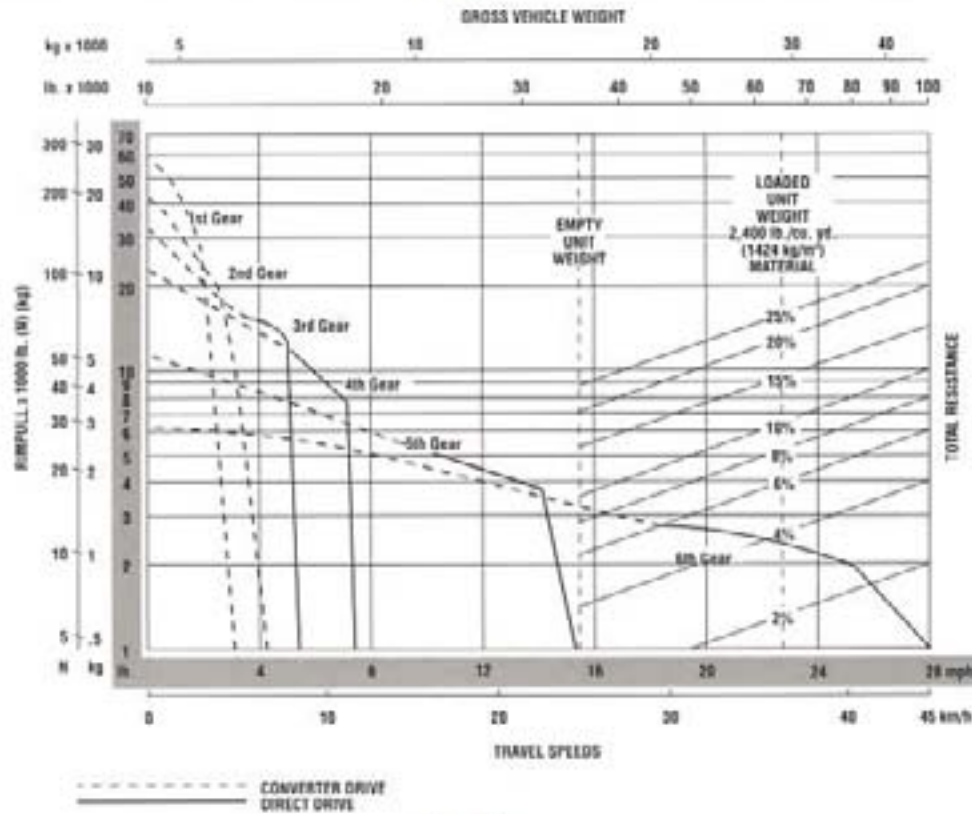
## GRADEABILITY PERFORMANCE\*

### Gradeability/Speed/Rimpull

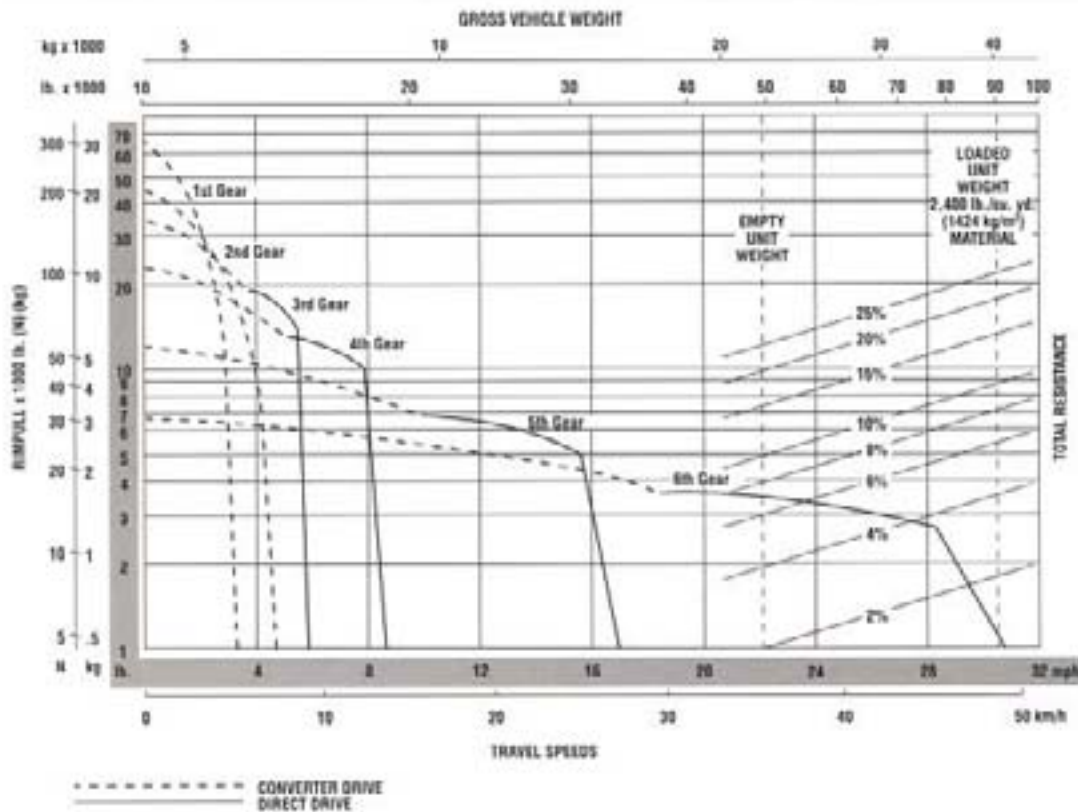
To calculate gradeability performance: Read down from vehicle weight to the percent of total resistance. (Total resistance equals actual percent of grade plus one percent for each 20 lb./ton of rolling resistance.) From this weight-resistance point, read horizontally across to the curve with the highest obtainable speed range, then down to maximum speed. Usable rimpull is affected by tire size, traction available, and weight on drive wheels.

\*Ambient temperature, length of haul, and weight of material moved could affect the tire ton-mph capacity. To prevent premature tire failure under adverse conditions, consult the tire manufacturer.

### 702B SCRAPER



### 802B SCRAPER



	762B	862B		762B	862B		762B	862B
<b>ENGINE</b>								
Batteries (two 12 volt), 160-min. (625 CCA) reserve capacity	●	●	Gauges (illuminated)	●	●	Windshield wiper	●	●
Coolant recovery tank	●	●	Fuel	●	●	Air conditioning (factory installed)*	■	■
Key start switch	●	●	Hourmeter, electric	●	●	Heater	■	■
Electric fuel shutoff	●	●	Tachometer	●	●	19,000 Btu/hr. (5.6 kW)	■	■
Electric ether starting aid	■	■	Horn, electric	●	●	20,000 Btu/hr. (5.8 kW)	■	■
Engine coolant heater, 1,000 watts, 120 volts*	■	■	Monitor system with alarm features	●	●	<b>LIGHTS</b>		
<b>TRANSMISSION</b>						Two halogen front headlights, (10,500 candlepower each)	●	●
Torque converter with manual lockup	●	●	Axle filter restriction indicator light	●	●	Two stop and taillights	●	●
Automatic transmission control system	■	■	Engine air cleaner restriction indicator light	●	●	Work lights	■	■
Transmission guard*	■	■	Engine coolant temperature indicator light with audible alarm	●	●	Two front, (1,500 candlepower each)	■	■
<b>AXLE, DRIVE</b>						Two loading, (1,500 and 5,000 candlepower, respectively)	■	■
Remote grease bank for tractor (front) axle	●	●	Engine oil pressure indicator light with audible alarm	●	●	<b>OVERALL VEHICLE</b>		
Axle suspension system	■	■	Hydraulic oil filter restriction indicator light	●	●	Integral bowl push block	●	●
<b>HYDRAULIC SYSTEM</b>						Lubrication banks	●	●
Hydraulic filter restriction indicator	●	●	Low alternator charge indicator light	●	●	Slip-resistant steps and ergonomically located handholds	●	●
<b>ELEVATOR</b>						Tie-down hooks	●	●
Sealed elevator chain	■	■	Low elevator charge pressure	●	●	Tractor fenders	●	●
<b>OPERATOR'S STATION</b>						Cab door and panels	■	■
Canopy, ROPS	●	●	Low transmission oil pressure	●	●	Scraper fenders with mud flaps	■	■
Deluxe suspension seat	●	●	Park brake indicator light with audible alarm	●	●	<b>OTHER</b>		
			Transmission filter restriction indicator light	●	●	Reverse warning alarm	●	●
			Transmission oil temperature indicator light	●	●	Extended side cutters*	■	■
			Rearview mirrors	●	●	Laser-controlled bowl raise and lower*	■	■
			Rocker switch-operated park brake	●	●	Severe-duty cutting edge*	■	■
			Park brake indicator	●	●	Teeth for cutting edge (field installed)*	■	■
			Seat belt, 3 in. (76 mm), retractable	●	●	24- to 12-volt D.C. radio converters*	■	■
			Tilt/telescoping steering wheel	●	●			
			Turn signals/flashers	●	●			

KEY: ● Standard equipment ■ Optional or special equipment

\*See your John Deere dealer for further information.

## THE JDAdvantEDGE

JDAdvantEdge is a wealth of support programs, parts systems, and dealer resources, all designed to give you the edge. This package of special benefits is a major reason why John Deere offers the "best value" for your equipment dollar.

**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 ... within 24 hours, across North America.

**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 stamped, 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 is an important contributor to the JDAdvantEdge. He or she is committed 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. More solid benefits of the JDAdvantEdge.

**Best protection** - In addition to the new equipment warranty that meets or exceeds the competition, SECURE® extended coverage, an optional service product for John Deere equipment, is available for repair coverage after the warranty concludes. Full machine or power train coverage is available for a variety of time periods to meet your needs. Consult your dealer for availability and 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 70 025, using ISO 2-C fuel at 24.5 PSI gauge. No derating is required up to 10,000 ft. (3053 m) altitude. Gross power is without cooling fan.

Specifications and design subject to change without notice. Whenever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on units with ROPS canopies, full fuel tanks, 175-lb. (79 kg) operators, and standard equipment: 762B unit with 23.5-26, 16 PR tires, and 862B unit with 26.5-26, 24 PR tires. Capacity and loaded weights are based on 2,400 lb. (1,142 kg) material.

