FEATURES

265 SAE net hp (198 kW) turbocharged and intercooled John Deere diesel engine

16 cu. yd. (12.2 m³) heaped capacity self-loading bowl with hydraulic load ejection

Infinitely variable-speed hydrostatic elevator with 23 extra-strong flights fills loads faster

Two transmission control options: direct operator (manual) control of shifting, or fully automatic (microprocessor-based) controls

Closed-center hydraulic system with fuel-saving variable-displacement pump

Hydraulic differential lock improves traction and reduces wheel spin—can be engaged/disengaged on-the-go

Improved position-responsive power steering and heavy-duty power brakes

New direct-acting bowl and elevator controls provide precise cutting depth control

New dual-level monitor system provides improved machine protection

Rollover protective structure (ROPS) and seat belt with cab or canopy

Standard tractor and scraper fenders

Optional axle suspension system improves ride and increases productivity
862B SCRAPER 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 26.5-25, 24 PR tires, ROPS canopy, full fuel tank, 176-hp (130 kW) engine and standard equipment.

**Capacity (SAE hoist):**
- Volume: 16 cu. yd. (12.23 m³)
- Total weight of payload: 2500 lb/yd³ (1483 kg/m³) - 40,000 lb. (18 144 kg)
- Net: 265 hp (198 kW) - 195 kW
- Gross: 275 hp (205 kW)

**Rated Power @ 2100 rpm:**
- SAE DIN 70 020
- Type: 4-stroke cycle, turbocharged and intercooled diesel
- Gross power is without cooling fan.

**Batteries (two 12-volt):** Reserve capacity: 180 minutes

**Cooling fan:**
- Suction type
- Two-phase single-stage with 2.3 to 1 multiplication ratio, free-wheeling
- Torque Converter: Electical system

**Compression ratio:** 14.7 to 1

**Displacement:** 619 cu. in. (10.145 L)

**Bore and stroke:**
- 3.15 x 3.85 in. (79.9 x 97.8 mm)

**Rated Power @ 2100 rpm:**
- SAE DIN 70 020
- Type: 4-stroke cycle, turbocharged and intercooled diesel
- Gross power is without cooling fan.

**Lubrication:**
- Pressure system with full-flow filter

**Maximum net torque @ 1400 rpm:** 862 lb-ft (1169 Nm) (117 kg-m)

**Lubrication:**
- Pressure system with full-flow filter
- Aspirated air cleaner with safety element and restriction indicator

**Cooling fan:**
- Suction type

**Electronic system:**
- 24-volt system with 50-amp alternator

**Filtration:**
- All systems are protected by replacement filters.
- Main hydraulic system: 10 micron
- Elevator system: 10 micron
- Transmission: 10 micron
- Engine: full-flow bypass: 2 micron
- Differential: 10 micron

**Hydraulic Cylinders (Bore Stroke):**
- Lift (2): 5 in. (127 mm) - 20 in. (508 mm)
- Sliding floor (1): 5.25 in. (133 mm) - 38.8 in. (986 mm)
- Ejector gate (2): 3 in. (76 mm) - 49.0 in. (1244 mm)
- Steering (2): 4 in. (102 mm) - 25.9 in. (658 mm)

**Elevator:**
- Reversible, hydrostatic-drive with heavy-duty planetary reduction. Non-sealed elevator chain is standard. Sealed chain is optional for extended life.

**Cutting Edge:**
- 8 ft. 10 in. (2.69 m) wide; 3 sections, reversible and replaceable, high-carbon steel. Each section is adjustable vertically 2 in. (51 mm).

**Tires Available:**
- 26.5-25, 24 PR, E2
- 29.5-25, 22 PR, E2
- 29.5-25, XRBT steel cord radials

**Capacities:**
- U.S. Liters
- Cooling system: 15 gal. - 56.8
- Fuel tank: 110 gal. - 416.4
- Engine lubrication w/ filter: 31 qt. - 29.3
- Transmission w/ filter: 7 gal. - 19.3
- Differential case: 7.5 gal. - 28.4
- Hyd. system reservoir: 24 gal. - 90.8
- Elevator gear case: 8 qt. - 7.6

**Additional Standard Equipment:**
- Deluxe suspension seat
- Dual-level monitor system
- Two-level warning:
  - Engine coolant temperature
  - Axle filter restricted
  - Brakes system pressure low
  - Electrical system voltage low
  - Elevator charge pressure low
  - Engine air filter restricted
  - Engine oil pressure low
  - Hydraulic system filter restricted
  - Transmission filter restricted
  - Transmission oil pressure low

**Weight Distribution:**
- Empty: Drive axle: 32,050 lb. (14 538 kg)
  - Scraper axle: 17,193 lb. (7 774 kg)
  - Total: 49,189 lb. (22 312 kg)
- Loaded: Drive axle: 44,400 lb. (20 140 kg)
  - Scraper axle: 44,789 lb. (20 316 kg)
  - Total: 89,198 lb. (40 456 kg)

**Optional or Special Equipment:**
- Air conditioner
- Automatic transmission control system
- Axle suspension system
- Cab door and panels
- Either starting aid
- Fender extensions and mud flaps for scraper wheels
- Heater, (19,000 Btu/hr) (5.6 kW)
- Rear push block
- Rearview mirrors (left and right)
- Steps and handrails, rear tractor
- Teeth for cutting edge
- Work lights (2 front and 2 loading)
GRADABILITY—RIMPULL
To calculate gradability 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 straight across to the curve with the highest obtainable speed range, then down to maximum speed. Usable rimpull is affected by 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.
### 862B SCRAPER DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>BOWL AT GROUND LEVEL</th>
<th>BOWL UP</th>
<th>BOWL LEVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>36 ft. 4 in. (11.07 m)</td>
<td>35 ft. 9 in. (10.90 m)</td>
<td>36 ft. 2 in. (11.02 m)</td>
</tr>
<tr>
<td>B</td>
<td>22 ft. 11 in. (6.99 m)</td>
<td>22 ft. 3 in. (6.78 m)</td>
<td>22 ft. 9 in. (6.93 m)</td>
</tr>
<tr>
<td>C</td>
<td>14 ft. 3 in. (4.34 m)</td>
<td>14 ft. 3 in. (4.34 m)</td>
<td>14 ft. 3 in. (4.34 m)</td>
</tr>
<tr>
<td>D (axle clearance)</td>
<td>19.5 in. (495 mm)</td>
<td>19.5 in. (495 mm)</td>
<td>19.5 in. (495 mm)</td>
</tr>
<tr>
<td>E</td>
<td></td>
<td>19 in. (483 mm) w/o teeth</td>
<td>7 in. (178 mm) w/o teeth</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16 in. (406 mm) w/teeth</td>
<td>4 in. (102 mm) w/teeth</td>
</tr>
<tr>
<td>F</td>
<td>10 ft. 1 in. (3.07 m)</td>
<td>9 ft. 11 in. (3.02 m)</td>
<td>9 ft. 11.5 in. (3.03 m)</td>
</tr>
<tr>
<td>G</td>
<td>10 ft. 3 in. (3.12 m)</td>
<td>10 ft. 11.4 in. (3.34 m)</td>
<td>10 ft. 5 in. (3.18 m)</td>
</tr>
<tr>
<td>H (trans. clearance)</td>
<td>20.6 in. (523 mm)</td>
<td>25.4 in. (645 mm)</td>
<td>23.5 in. (597 mm)</td>
</tr>
</tbody>
</table>

- E*: cut below ground level: 9 in. (229 mm) w/o teeth
  11.9 in. (302 mm) w/teeth

- A**: add 6.9 in. (175 mm) for optional rear push block