• Unsurpassed grading capability
• Superior blade design
• Precision hydraulic controls
• Spacious operator platform
POWER AND PRODUCTIVITY

New Holland motor graders deliver both. The New Cummins Tier III turbocharged 6.7 liter engine puts out between 140 and 220 gross horsepower (SAE J1995) depending on the model, for maximum productivity. Other product features provide comfort, reliability and performance.

Super sized circle
• Our 69 inch diameter circle is one of the largest in its class
• Exterior-tooth design eliminates packing that is common to other brands
• Heavy-duty welded steel construction provides strength, support and overall balance
• Moldboard rotates a full 360 degrees for infinite changes to the blade-cutting angle
• Five-position moldboard saddle provides up to 90 degrees of vertical angle for slope work or ditch digging

Maneuverability and visibility
• 23’11” turning radius enhances productivity and reduces turn-around time
• Cab is mounted behind the articulation point, providing an excellent view of both working attachments
• Large glass surface area provides excellent visibility for added operator confidence

Rugged construction
• Heavy-duty welded box section frame construction
• Front axles use an improved spherical joint between a double support to provide up to 19 degrees of oscillation (each way)
• Front wheels lean up to 17.5 degrees each way for steering control
• 24.5” of ground clearance increases jobsite maneuverability
• Moldboards are available in 12’, 13’ and 14’ widths; infinitely adjustable thru 45 degrees

Added versatility – three models
• G140 dual hp output
• G170 variable hp output
• G200 single hp output
• Ripper, scarifier, dozer blade and front push plate attachments increase application flexibility

Dirt “catches a wave”
The New Holland “involute” moldboard profile generates a curling, tube-like wave action that allows material to roll effortlessly down the face of the moldboard. The “rollaway” action of the New Holland moldboard allows material to move faster and exit more efficiently, preventing build-up. This makes more efficient use of power and reduces fuel consumption.

<table>
<thead>
<tr>
<th>Model</th>
<th>G140 Dual Power</th>
<th>G170 Variable power</th>
<th>G200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net horsepower</td>
<td>140 hp (104 kW)</td>
<td>180 hp (134 kW)</td>
<td>205 hp (153 kW)</td>
</tr>
<tr>
<td></td>
<td>160 hp (119 kW)</td>
<td>190 hp (142 kW)</td>
<td></td>
</tr>
<tr>
<td>Displacement</td>
<td>409 cu. in. (6.7 L)</td>
<td>409 cu. in. (6.7 L)</td>
<td>409 cu. in. (6.7 L)</td>
</tr>
<tr>
<td>Hydraulic flow</td>
<td>49 gpm (187 lpm)</td>
<td>49 gpm (187 lpm)</td>
<td>49 gpm (187 lpm)</td>
</tr>
<tr>
<td>Total operating weight</td>
<td>29,918 lbs. (13,571 kg)</td>
<td>31,786 lbs. (14,418 kg)</td>
<td>37,739 lbs. (17,118 kg)</td>
</tr>
</tbody>
</table>
The standard five-position moldboard saddle angle is a natural for grading slopes and embankments.

25 degrees of articulation angle (left and right) maximizes maneuverability, visibility and control.

Tires lean up to 19 degrees for extra maneuverability.
TURBOCHARGED POWER SMOOTH HYDRAULICS

Tier III Cummins technology
Turbocharged Cummins 6.7L engine delivers up to 220 BHP (164 kW) and 700 lb-ft (949 Nm) of torque for heavy grading, ripping and scarifying operations.

With peak torque delivered at 1,500 rpm, New Holland graders provide the muscle where it’s required at start-up and lower speeds.

Variable power output
- G140 = 140 hp/160 hp (104 kW/119 kW)
- G170 = 180 hp/190 hp/205 hp (134 kW/142 kW/153 kW)
- G200 = 205 hp (153 kW)
- Variable power models deliver additional power when its required in high gears. In lower gears the horsepower is reduced to limit wheel slip and to conserve fuel

Smooth power control
- Full power shift direct drive transmission with electronic control provides the finesse required for fine finishing and grading
- A single control lever delivers smooth on-the-go shifting for 8 forward and 4 reverse gears
- Power controls include main hand throttle that can be overridden by a foot operated accelerator/decelerator pedal. An inching pedal is available for precise grading and accurate movement in tight areas.
- Electronic over-speed protection minimizes "free wheeling" on steep grades

Hydraulic flow and flexibility
- Closed-center, load-sensing hydraulic system delivers 49 gallons per minute flow
- Nine-section, integrated control valve provides balanced, individual, uninterrupted flow to all hydraulic functions
- Dual over-center valves control movement of loads and prevent running ahead of pump. Locks in any position without drift and provides overload relief

Excellent tracking capability
- Super Max Trac™ rear-axle limited slip differentials on the G140 and G170 automatically deliver up to 60% of tractive force to the axle with the most traction
- Conventional DANA differential with operator controlled hydraulic lock/unlock is standard on the G200 and available on the G140 and G170
- Maintenance-free graphite wet discs provide unmatched stopping power, effective at all four wheels

New Holland Motor Graders deliver the power, speed and total control for consistent flat-level grading and grading slope inclines up to 90 degrees.
The fiberglass hood swings open assisted by charged cylinder supports. This provides easy access for routine engine maintenance.

Two swing-out 1010 CCA maintenance-free batteries, one conveniently located on each side of the engine compartment.

The swing-up hood allows easy access to site windows and fluid dipsticks and filters.
The ergonomically designed G Series cab includes all of the amenities to make your job easier. Beginning with a spacious cab, superior access is provided with left and right side exit/entry. Add a comfortable suspension seat, new steering wheel, diamond plate foot pedals and you’ve got a comfortable operating environment.

**Excellent visibility**
- All models offer over 62 square feet of tinted glass to reduce glare from the sun and snow
- Thin corner posts and door frames improve operator visibility
- Front and rear windshield wipers/washers are standard
- Interior and exterior mirrors are standard
- Cab sound level is a low 77 dBA per (SAE J919)

**Ergonomics equals comfort**
- Operator’s compartment provides over 76” of head room
- Suspension seat if fully adjustable with moveable arm rests
- Adjustable operator’s console includes hydraulic control levers, new smaller diameter steering wheel and indicator lights
- Optional high performance air conditioning system cranks out over 22,000 net BTU’s
- Heating/cooling vents are positioned above operator to efficiently circulate air
- Cab system also includes cup holders and covered storage compartment
- Single key operation is standard for door lock handles and ignition switch

**Information is power**
- Electronic data monitor reports all important machine functions, including electrical and mechanical operating data
- Easy-to-read gauges on the right-side console include fuel level, transmission hydraulic pressure/temperature, engine oil pressure, and engine coolant
- An in-cab air filter restriction indicator alerts operator when it’s time to change the air filter

**Efficient rear-mounted cab positioning**
The G Series cab is positioned behind the front articulation point to provide excellent forward visibility. This puts you in direct view of all grading functions and provides you with the confidence you need to operate comfortably in tight spaces.
Adjustable suspension seat, arm rests and steering wheel allows each operator to achieve a comfortable position.

F-N-R bump shifter with eight forward speeds and four reverse speeds.

Easy-to-read gauges allow monitoring of fluid levels and operating temperatures.
ATTACHMENT VERSATILITY

New Holland motor graders help you increase your productivity with attachments like rippers, scarifiers, and dozer blades.

**Front scarifier**
- Choose between the five tooth standard configuration or the eleven tooth option. Both provide a V-design with parallelogram lift to maximize penetration
- Teeth can be changed without tools
- Maximum lift is 20.75 inches
- Maximum ground penetration is 12.5"

**Front dozer blade**
- 109” spread covers outside width of tires to supplement the standard moldboard
- Can operate front blade and moldboard simultaneously for grading and embankment operations
- Hydraulic float option allows the blade to follow ground contours for more efficient operation
- Maximum lift is 24.5"
- Maximum penetration is 6.5"

**Rear-mounted ripper**
- Standard three tooth configuration or five tooth option both provide up to 17.2” of ground penetration
- Five and nine tooth scarifier teeth configurations provide excellent soil breaking action

**Double duty**
Pair the standard moldboard with the front dozer attachment and grade twice the work area. The built-in flexibility of the five-position moldboard saddle provides up to 90 degrees of bank slope angle, allowing you to grade an embankment while the front dozer blade grades the area in front.
The front scarifier offers 20.75 inches of lift for excellent ground clearance and 12.5 inches of ground penetration.

The optional parallelogram ripper provides over 17" of ground penetration, even in hard-packed soils.

Durable front axles are made of high strength steel with forged spindles and tapered roller bearings.
### Dimensions G140 G170 G200

#### Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>G140</th>
<th>G170</th>
<th>G200</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Height to top of cab</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low profile</td>
<td>10'4&quot; (3140 mm)</td>
<td>10'4&quot; (3140 mm)</td>
<td>10'4&quot; (3140 mm)</td>
</tr>
<tr>
<td>High profile</td>
<td>11' (3340 mm)</td>
<td>11' (3340 mm)</td>
<td>11' (3340 mm)</td>
</tr>
<tr>
<td>B. Tread gauge</td>
<td>7'0&quot; (2134 mm)</td>
<td>7'0&quot; (2134 mm)</td>
<td>7'0&quot; (2134 mm)</td>
</tr>
<tr>
<td>C. Tread width</td>
<td>8'3&quot; (2510 mm)</td>
<td>8'3&quot; (2510 mm)</td>
<td>8'7&quot; (2550 mm)</td>
</tr>
<tr>
<td>D. Blade width (std.)</td>
<td>12'0&quot; (3568 mm)</td>
<td>13'0&quot; (3692 mm)</td>
<td>14'0&quot; (4267 mm)</td>
</tr>
<tr>
<td>E. Height to top of exhaust</td>
<td>10'11&quot; (3323 mm)</td>
<td>10'11&quot; (3323 mm)</td>
<td>10'11&quot; (3323 mm)</td>
</tr>
<tr>
<td>F. Height to top of lift cylinders</td>
<td>10'0&quot; (3047 mm)</td>
<td>10'0&quot; (3047 mm)</td>
<td>10'0&quot; (3047 mm)</td>
</tr>
<tr>
<td>G. Blade base</td>
<td>8'5&quot; (2562 mm)</td>
<td>8'5&quot; (2562 mm)</td>
<td>8'5&quot; (2562 mm)</td>
</tr>
<tr>
<td>H. Circle clearance</td>
<td>2'0&quot; (610 mm)</td>
<td>2'0&quot; (610 mm)</td>
<td>2'0&quot; (610 mm)</td>
</tr>
<tr>
<td>I. Wheel base</td>
<td>20'5&quot; (6219 mm)</td>
<td>20'5&quot; (6219 mm)</td>
<td>20'5&quot; (6219 mm)</td>
</tr>
<tr>
<td>J. Frame length</td>
<td>27'2&quot; (8289 mm)</td>
<td>27'2&quot; (8289 mm)</td>
<td>27'4&quot; (8327 mm)</td>
</tr>
<tr>
<td>K. Overall length</td>
<td>27'11&quot; (8521 mm)</td>
<td>27'11&quot; (8521 mm)</td>
<td>28'0&quot; (8555 mm)</td>
</tr>
<tr>
<td>L. Tandem center to articulation joint</td>
<td>6'5&quot; (1958 mm)</td>
<td>6'5&quot; (1958 mm)</td>
<td>6'5&quot; (1958 mm)</td>
</tr>
<tr>
<td>M. Tandem gauge</td>
<td>5'2&quot; (1594 mm)</td>
<td>5'2&quot; (1594 mm)</td>
<td>5'3&quot; (1602 mm)</td>
</tr>
<tr>
<td>N. Tandem center to rear frame</td>
<td>5'4&quot; (1637 mm)</td>
<td>5'4&quot; (1637 mm)</td>
<td>5'5&quot; (1662 mm)</td>
</tr>
<tr>
<td>O. Frame to ripper point</td>
<td>2'8&quot; (815 mm)</td>
<td>2'8&quot; (815 mm)</td>
<td>3'1&quot; (933 mm)</td>
</tr>
<tr>
<td>P. Overall length of ripper</td>
<td>3'4&quot; (1020 mm)</td>
<td>3'4&quot; (1020 mm)</td>
<td>3'8&quot; (1138 mm)</td>
</tr>
</tbody>
</table>

### Capacities

#### Capacities G140 G170 G200

<table>
<thead>
<tr>
<th>Component</th>
<th>G140</th>
<th>G170</th>
<th>G200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel tank</td>
<td>90 gal (341 l)</td>
<td>90 gal (341 l)</td>
<td>90 gal (341 l)</td>
</tr>
<tr>
<td>Cooling system</td>
<td>10.5 gal (40 l)</td>
<td>10.5 gal (40 l)</td>
<td>10.5 gal (40 l)</td>
</tr>
<tr>
<td>Crankcase (Engine)</td>
<td>4.6 gal (17.5 l)</td>
<td>4.6 gal (17.5 l)</td>
<td>4.6 gal (17.5 l)</td>
</tr>
<tr>
<td>Transmission</td>
<td>4.7 gal (18 l)</td>
<td>5.0 gal (19 l)</td>
<td>5.8 gal (22 l)</td>
</tr>
<tr>
<td>Tandem case, each</td>
<td>7.7 gal (29 l)</td>
<td>7.7 gal (29 l)</td>
<td>6 gal (22.7 l)</td>
</tr>
<tr>
<td>Hydraulic system</td>
<td>47.5 gal (180 l)</td>
<td>47.5 gal (180 l)</td>
<td>47.5 gal (180 l)</td>
</tr>
<tr>
<td>Rear axle</td>
<td>7.7 gal (29 l)</td>
<td>7.7 gal (29 l)</td>
<td>3.2 gal (12 l)</td>
</tr>
<tr>
<td>Circle turn housing</td>
<td>0.74 gal (2.8 l)</td>
<td>0.75 gal (2.8 l)</td>
<td>0.75 gal (2.8 l)</td>
</tr>
<tr>
<td>Crankcase engine w/filter</td>
<td>4.9 gal (18.9 l)</td>
<td>4.9 gal (18.9 l)</td>
<td>4.9 gal (18.9 l)</td>
</tr>
<tr>
<td>Transmission w/filter</td>
<td>5.5 gal (21 l)</td>
<td>6.6 gal (25.6 l)</td>
<td>7.5 gal (28.5 l)</td>
</tr>
</tbody>
</table>

*Base unit with coolant, hydraulic oil, full fuel tank, 175 lb (79 kg) operator and cab

### Operating Weight

<table>
<thead>
<tr>
<th>Weight</th>
<th>G140</th>
<th>G170</th>
<th>G200</th>
</tr>
</thead>
<tbody>
<tr>
<td>On front wheels</td>
<td>8,172 lb (3,707 kg)</td>
<td>9,370 lb (4,250 kg)</td>
<td>11,250 lb (5,103 kg)</td>
</tr>
<tr>
<td>On rear wheels</td>
<td>21,746 lb (9,864 kg)</td>
<td>22,416 lb (10,168 kg)</td>
<td>26,488 lb (12,015 kg)</td>
</tr>
<tr>
<td>Total</td>
<td>29,918 lb (13,571 kg)</td>
<td>32,077 lb (14,550 kg)</td>
<td>37,738 lb (17,118 kg)</td>
</tr>
</tbody>
</table>

*Base unit with coolant, hydraulic oil, full fuel tank, 175 lb (79 kg) operator and cab
### G140 Specifications

#### ENGINE
- Make and Model: Cummins QSB 6.7 L
- Type: Tier III compliant diesel, electronic controlled
- Aspiration: Turbocharged
- Net horsepower (SAE J1349) low curve: 140 hp (112 kW)
- Net horsepower (SAE J1349) high curve: 160 hp (129 kW)
- Number of cylinders: 6
- Bore x stroke: 4.21" x 4.88" (107 mm x 124 mm)
- Displacement: 409 cu. in. (6.7 l)
- Governed speed: 2,200 rpm
- Maximum torque (SAE J1995) low curve: 85 ft-lb (115.3 Nm)
- Engine complies with US Tier EPA standards

#### ELECTRICAL SYSTEM
- Voltage: 24V
- Batteries in series: (2) 12-volt 1010 CCA
- Total capacity: 200 Ah
- Alternator capacity: 80 amps

#### TRANSMISSION
- Type: Full power shift direct drive
- Control: Electric, single lever "bump type" shifter
- Gears: 8 forward / 4 reverse
- Speeds: Forward / Reverse
  1. 2.2 mph (3.6 km/h)
  2. 3.2 mph (5.1 km/h)
  3. 4.4 mph (7.08 km/h)
  4. 6.2 mph (10.0 km/h)
  5. 8.9 mph (14.3 km/h)
  6. 12.4 mph (20.0 km/h)
  7. 17.7 mph (28.5 km/h)
  8. 26.6 mph (42.9 km/h)

#### TANDEM DRIVE HOUSING
- Welded box section wall thickness: 0.63" (16 mm)
- Chain pitch: 2.00" (50.8 mm)
- Tandem oscillation, each way: 20 degrees
- Drive ratio: 1.35:1

#### BRAKE SYSTEMS
- Service brakes: Foot operated, 4 wheel hydraulic power assist
- Disc size: 14.2" (360 mm) x 1.0" (25.5 mm)
- Emergency brakes: Nitrogen accumulator integrated into each system
- Parking brake: Hand operated, caliper installed on transmission output shaft
- Size: 14" (356 mm)

#### FRAMES
- Front: All welded box frame construction
- Dimensions: 10.0" x 11.73" (254 mm x 299 mm)
- Frame section weight: 103.1 lb/ft (153.3 kg/m)
- Rear: All welded box frame construction
- Dimensions: 4.75" x 11.75" (121 mm x 299 mm)
- Frame section weight, each side: 52.7 lb/ft (78.3 kg/m)

#### DRAWBAR
- Type: "A" frame welded construction
- Connections: Shim adjustable ball and circle

#### CIRCLE
- Outside diameter: 69" (1,753 mm)
- Fabricated T-section: 7 x 6.62 x 1.5" (178 mm x 168 mm x 38.1 mm)
- Rotation: 360 degrees. 1.2 rpm (7.2 degrees per second)
- Wear surface: Replaceable phenolic inserts
- Work surface area: 441 sq. in. (2,845 sq. cm)
- Gear box: Fully enclosed, bathed in oil

#### HYDRAULICS
- Type: Piston pump, variable displacement
- Pressure and flow compensated, load sensing
- Flow at full stroke: 49.0 gpm (186 LPM) @ 2200 rpm
- Maximum pressure: 2600 psi (179 bar) @ 2200 rpm
- Control valve: Closed center, load sensing, 9 section
- Relief settings: Main: 3100 psi ± 50 (214 bar) ± 3.5
  - Load sense: 2600 psi ± 50 (179 bar) ± 3.5
  - Lift port: 1500 psi ± 50 (103 bar) ± 3.5
- Blade-lifting cylinder: Mounted on rotating saddle
- Saddle lock pins: Two cylinders actuated by an electric solenoid
- Control valve regulated by a pressure reducing valve at 60 psi (413 kPA)
- Hydraulic system filter: Full flow shell, paper element
- Micron rating: 5 nominal, 25 absolute

#### AXLE: FRONT
- Construction: High strength welded steel
- Oscillation: 19 degrees each way
- Wheel lean: 17.5 degrees each way
- Ground clearance: 24.5" (622 mm)

#### STEERING
- Front wheels: Hydrostatic power steering
- Pump: Gear type
  - Capacity @ 2200 rpm: 9.8 gpm (37.3 lpm)
  - Cylinders (number, bore & stroke): Rod diameter: 2.25" x 10.5" x 1.5" (63.5 mm x 266.7 mm x 38.1 mm)
- Wheel-steer angle (left and right): 48 degrees
- Steering wheel turns (lock to lock): 4.75 turns
- Articulation
  - Type: Hydraulic actuated (with lock valve)
  - Articulation angle (left and right): 25 degrees
- Minimum turning radius: 23.9" (7,250 mm)
## G170 Specifications

### ENGINE

- Make and Model: Cummins QSB 6.7 L Tier III compliant, electronic controlled, direct injected
- Type: Turbocharged
- Net horsepower:
  - Low curve: SAE J1349, 180 hp (134 kW)
  - Mid curve: SAE J1349, 190 hp (142 kW)
  - High curve: SAE J1349, 205 hp (153 kW)
- Number of cylinders: 6
- Bore x stroke: 4.21” x 4.88” (107 mm x 124 mm)
- Displacement: 409 cu. in. (6.7 l)
- Governed speed: 2,200 rpm
- Maximum torque: SAE J1995 @ 1,500 rpm, 564 ft-lb (762 Nm)
- Engine complies with US Tier III EPA standards

### TRANSMISSION

- Type: Electric, single lever “bump type”
- Gears: 8 forward / 4 reverse
- Speeds: 8
- Chain pitch: 2.00” (50.8 mm)
- Welded box section wall thickness: 63” (16 mm)
- Tandem oscillation, each way: 20 degrees
- Drive Ratio: 1.350:1

### ELECTRICAL SYSTEM

- Voltage: 24V
- Batteries in series: (2) 12-volt, 1010 CCA
- Total capacity: 200 Ah
- Alternator capacity: 80 amps

### BRAKE SYSTEMS

- Service brakes: Foot operated, 4-wheel hydraulic power assist
- Type: Wet disc
- Disc size: 14.2” (360 mm) x 10” (255 mm)
- Emergency brakes: Nitrogen accumulator integrated into each service system circuit
- Parking brake: Hand operated, caliper installed on transmission output shaft

### FRAMES

- Front: Type: All welded box
  - Dimensions: 10.0” x 11.75” (254 mm x 299 mm)
  - Frame section weight: 124.7 lb/ft (172.8 kg/m)
- Rear: Type: All welded box
  - Dimensions: 4.75” x 11.75” (121 mm x 299 mm)
  - Frame section weight, each side: 56.5 lb/ft (84 kg/m)

### DRAWBAR

- Type: “A” frame welded construction with center mounted circle turn motor
- Connections: Shim adjustable ball and circle

### CIRCLE

- Outside diameter: 69” (1,753 mm)
- Fabricated T-section: 7” x 6.62” x 1.5” (178 mm x 168 mm x 38.1 mm)
- Rotation: 360 degrees
- Maximum pressure: 2600 psi (179.0 bar) @ 2200 rpm
- Flow at full stroke: 49.0 gpm (186 LPM) @ 2200 rpm
- Control valve: Closed center, load sensing, 9 section
- Relief settings: Main: 3100 psi ± 50 (214 bar) ± 3,5
- Lift port: 1500 psi ± 50 (103 bar) ± 3,5
- Blade-lifting cylinder: Mounted on rotating saddle

### AXLE: FRONT

- Construction: High strength welded steel
- Oscillation: 19 degrees each way
- Wheel lean: 17.5 degrees each way
- Ground clearance: 24.5” (622 mm)

### AXLE: REAR

- Type: Planetary with inboard wet brakes
- Construction: Semi-floating, heat treated steel
- Differential support: Tapered roller bearings
- Inner axle bearings: Tapered roller bearings
- Outer axle bearings: Tapered roller bearings
- Bevel pinion bearings: Cylindrical roller spigot
- Gear ratios: Bevel set = 3.154...Planetary = 5.167...Total = 22:00
- Static load capacity: 78,700 lbs (35,000 daN)
- Ground clearance: 14.9” (378 mm)

### AXLE: TANDEM

- Chain pitch: 2.00” (50.8 mm)
- Welded box section wall thickness: .63” (16 mm)
- Tandem oscillation, each way: 20 degrees
- Drive Ratio: 1.350:1

### HYDRAULICS

- Type: Piston pump, variable displacement
- Pressure and flow compensated, load sensing
- Flow at full stroke: 49.0 gpm (186 LPM) @ 2200 rpm
- Maximum pressure: 2600 psi (179.0 bar) @ 2200 rpm
- Control valve: Closed center, load sensing, 9 section
- Relief settings: Main: 3100 psi ± 50 (214 bar) ± 3,5
- Lift port: 1500 psi ± 50 (103 bar) ± 3,5
- Blade-lifting cylinder: Mounted on rotating saddle

### HYDRAULIC SYSTEM

- Type: Full flow shell, paper element
- Micron rating: 5 nominal, 25 absolute

### STEERING

- Front wheels: Hydrostatic power steering
- Type: Gear type
- Capacity: 2200 rpm...11.5 gpm (43 lpm)
- Cylinders (number, bore & stroke), rod diameter: 2, 2.5” x 10.5” x 1.5” (63.5 mm x 266.7 mm x 38.1 mm)
- Wheel-steer angle (left and right): 48 degrees
- Steering wheel turns (lock to lock): 4.75 turns
- Articulation: Hydraulic actuated (with lock valve)
- Articulation angle (left and right): 25 degrees
- Cylinders (number, bore & stroke): 2, 3.15” x 14.84” (80 mm x 377 mm)
- Minimum turning radius: 23.11” (7,289 mm)
## G200 Specifications

### ENGINE
- Make and Model: Cummins QSB 6.7 L
- Type: Tier III compliant diesel, electronic controlled
- Aspiration: Turbocharged
- Net horsepower (SAE J1349): 205 hp (153 kW)
- Number of cylinders: 6
- Bore x stroke: 4.21 x 4.88 (107 mm x 124 mm)
- Displacement: 409 cu. in. (6.7 l)
- Governed speed: 2,200 rpm
- Maximum torque (@ 1,600 rpm) SAE (J1995): 650 ft-lb (881 Nm)
- Engine complies with US Tier III EPA standards

### ELECTRICAL SYSTEM
- Voltage: 24V
- Batteries in series: (2) 12-volt 1010 CCA
- Total capacity: 200 Ah
- Alternator capacity: 80 amps

### TRANSMISSION
- Type: Full power shift direct drive
- Control: Electric, single lever “bump type” shifter
- Gears: 8 forward / 4 reverse
- Speeds:
  - Forward: 2.4 mph (3.86 km/h), 3.4 mph (5.47 km/h), 4.7 mph (7.56 km/h), 6.6 mph (10.62 km/h), 9.6 mph (15.45 km/h), 13.5 mph (21.73 km/h), 19 mph (30.64 km/h)
  - Reverse: 2.4 mph (3.86 km/h), 3.4 mph (5.47 km/h), 4.7 mph (7.56 km/h), 6.6 mph (10.62 km/h), 9.6 mph (15.45 km/h), 13.5 mph (21.73 km/h), 19 mph (30.64 km/h)

### TANDEM DRIVE HOUSING
- Welded box section wall thickness: 0.63 (16 mm)
- Chain pitch: 1.25 (31.75 mm)
- Tandem oscillation, each way: 20 degrees
- Drive ratio: 1.350:1

### AXLE: FRONT
- Construction: High strength welded steel
- Oscillation: 19 degrees each way
- Wheel lean: 17.5 degrees each way
- Ground clearance: 24.5" (622 mm)

### AXLE: REAR
- Construction: Rigid – full-floating, heat treated steel
- Differential support: Tapered roller
- Bevel pinion bearings: Tapered roller
- Gear ratios:
  - Bevel set: 3.214:1
  - Spur set: 6:00:1
  - Total: 19.197:1
- Ground clearance: 14.9" (378 mm)

### BRAKE SYSTEMS
- Service brakes: Foot operated, 4 wheel hydraulic power assist
- Type: Wet disc at the wheel
- Disc size: 10.0” x 7.08" (254 mm x 180 mm)
- Emergency brakes: Nitrogen accumulator integrated into each service system circuit
- Parking brake: Hand operated, caliper installed on transmission output shaft
- Size: 14" (356 mm)

### FRAMES
- Type: “A” frame welded construction with center mounted circle turn motor
- Connections: Shim adjustable ball and circle

### CIRCLE
- Outside diameter: 69” (1.753 mm)
- Fabricated T-section: 7” x 6.62” x 1.5” (178 mm x 168 mm x 38.1 mm)
- Rotation: 360 degrees
- Load sense: 2600 psi ± 50 (179 bar) ± 3,5
- Relief settings: Main: 3100 psi ± 50 (214 bar) ± 3,5
- Lift port: 1500 psi ± 50 (103 bar) ± 3,5
- Blade-lifting cylinder: Mounted on rotating saddle
- Dimensions: 441 sq. in. (2.849 sq. cm.)
- Gear box: Fully enclosed, bathed in oil

### HYDRAULICS
- Type: Piston pump, variable displacement
- Pressure and flow compensated, load sensing
- Flow at full stroke: 49.0 gpm (186 LPM) @ 2200 rpm
- Rated speed: 2600 psi (179.0 bar)
- Control valve: Closed center, load sensing, 9 section tailored to individual functions
- Relief settings:
  - Main: 3100 psi ± 50 (214 bar) ± 3,5
  - Load sense: 2600 psi ± 50 (179 bar) ± 3,5
  - Lift port: 1500 psi ± 50 (103 bar) ± 3,5
- Blade-lifting cylinder: Mounted on rotating saddle
- Pressure and flow compensated, load sensing
- Hydraulic system filter: Full flow shell, paper element
- Micron rating: 5 nominal, 25 absolute

### STEERING
- Type: Hydrostatic power steering
- Pump type: Gear type
- Capacity @ 2200 rpm: 11.5 gpm (43 lpm)
- Cylinders (number, bore & stroke): 2, 2.5” x 10.5” x 1.5” (63.5 mm x 266.7 mm x 38.1 mm)
- Wheel-steer angle (left and right): 48 degrees
- Steering wheel turns (lock to lock): 4.75 turns
- Articulation:
  - Type: Hydraulic activated (with lock valve)
  - Articulation angle (left and right): 25 degrees
  - Cylinders (number, bore & stroke): 2, 3.15” x 14.84” (80 mm x 377 mm)
  - Minimum turning radius: 23.11” (7.289 mm)
### BLADE

<table>
<thead>
<tr>
<th></th>
<th>G140</th>
<th>G170</th>
<th>G200</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>One-piece “Roll-away” involute curve with replaceable end bits and cutting edges</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Blade control</strong></td>
<td>Hydraulic side shift and pitch</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Available sizes</strong></td>
<td>12’ x 24.5” x .875” (3,658 mm x 622 mm x 22 mm)</td>
<td>13’ x 26.4” x .875” (3,962 mm x 671 mm x 22 mm)</td>
<td>14’ x 26.4” x .875” (4,267 mm x 671 mm x 22 mm)</td>
</tr>
<tr>
<td><strong>Lift above ground</strong></td>
<td>17.5” (445 mm)</td>
<td>17.5” (445 mm)</td>
<td>17.5” (445 mm)</td>
</tr>
<tr>
<td><strong>Blade side shift, left</strong></td>
<td>21” (533 mm)</td>
<td>21” (533 mm)</td>
<td>21” (533 mm)</td>
</tr>
<tr>
<td><strong>Blade side shift, right</strong></td>
<td>28” (711 mm)</td>
<td>28” (711 mm)</td>
<td>28” (711 mm)</td>
</tr>
<tr>
<td><strong>Reach, outside wheels, standard blade</strong></td>
<td>77.88” (1,978 mm)</td>
<td>77.88” (1,978 mm)</td>
<td>77.88” (1,978 mm)</td>
</tr>
<tr>
<td><strong>Blade pitch range</strong></td>
<td>5 degrees</td>
<td>5 degrees</td>
<td>5 degrees</td>
</tr>
<tr>
<td><strong>Bank-cutting angle, left and right</strong></td>
<td>90 degrees</td>
<td>90 degrees</td>
<td>90 degrees</td>
</tr>
<tr>
<td><strong>Blade pressure</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>with Cab</td>
<td>14,788 lb (6,722 kg)</td>
<td>16,063 lb (7,286 kg)</td>
<td>19,391 lb (8,814 kg)</td>
</tr>
<tr>
<td>with Cab, ripper and front blade</td>
<td>19,191 lb (8,723 kg)</td>
<td>19,921 lb (9,036 kg)</td>
<td>22,132 lb (10,060 kg)</td>
</tr>
</tbody>
</table>

### ATTACHMENTS

#### FRONT SCARIFIER:

<table>
<thead>
<tr>
<th></th>
<th>G140</th>
<th>G170</th>
<th>G200</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Parallelogram, front mounted</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Weight (5 teeth)</strong></td>
<td>1,256 lb (570 kg)</td>
<td>1,256 lb (570 kg)</td>
<td>1,256 lb (570 kg)</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>3’10” (1168 mm)</td>
<td>3’10” (1168 mm)</td>
<td>3’10” (1168 mm)</td>
</tr>
<tr>
<td><strong>Number of teeth</strong></td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td><strong>Width between teeth</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 teeth</td>
<td>9° (229 mm)</td>
<td>9° (229 mm)</td>
<td>9° (229 mm)</td>
</tr>
<tr>
<td>11 teeth</td>
<td>4.5° (114 mm)</td>
<td>4.5° (114 mm)</td>
<td>4.5° (114 mm)</td>
</tr>
<tr>
<td><strong>Lift above ground</strong></td>
<td>1’8.75” (527 mm)</td>
<td>1’8.75” (527 mm)</td>
<td>1’8.75” (527 mm)</td>
</tr>
<tr>
<td><strong>Machine length with front scarifier</strong></td>
<td>31’0” (9449 mm)</td>
<td>31’0” (9449 mm)</td>
<td>31’0” (9449 mm)</td>
</tr>
</tbody>
</table>

#### REAR RIPPER AND SCARIFIER:

<table>
<thead>
<tr>
<th></th>
<th>G140</th>
<th>G170</th>
<th>G200</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Parallelogram, rear mounted</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>1,378 lb (625 kg)</td>
<td>2,172 lb (985 kg)</td>
<td>2,172 lb (985 kg)</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>7’2” (2195 mm)</td>
<td>7’2” (2195 mm)</td>
<td>7’2” (2195 mm)</td>
</tr>
<tr>
<td><strong>Number of teeth</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scarifier</td>
<td>5 (standard)</td>
<td>5 (standard)</td>
<td>5 (standard)</td>
</tr>
<tr>
<td>Ripper</td>
<td>5 (standard) / 9 (optional)</td>
<td>5 (standard) / 5 (optional)</td>
<td>5 (standard) / 9 (optional)</td>
</tr>
<tr>
<td><strong>Width between teeth</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scarifier</td>
<td>10.6” (270 mm)</td>
<td>10.6” (270 mm)</td>
<td>10.6” (270 mm)</td>
</tr>
<tr>
<td>Ripper</td>
<td>10.6” (270 mm)</td>
<td>10.6” (270 mm)</td>
<td>10.6” (270 mm)</td>
</tr>
<tr>
<td><strong>Lift above ground</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scarifier</td>
<td>1’8” (508 mm)</td>
<td>1’8.4” (518 mm)</td>
<td>1’8.4” (518 mm)</td>
</tr>
<tr>
<td>Ripper</td>
<td>1’5.2” (437 mm)</td>
<td>1’5.2” (437 mm)</td>
<td>1’5.2” (437 mm)</td>
</tr>
<tr>
<td><strong>Penetration</strong></td>
<td>31’4” (9550 mm)</td>
<td>31’4” (9550 mm)</td>
<td>31’4” (9550 mm)</td>
</tr>
<tr>
<td><strong>Machine length with ripper</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### DOZER BLADE:

<table>
<thead>
<tr>
<th></th>
<th>G140</th>
<th>G170</th>
<th>G200</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Front mounted</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>2,568 lb (1,165 kg)</td>
<td>2,568 lb (1,165 kg)</td>
<td>2,568 lb (1,165 kg)</td>
</tr>
<tr>
<td><strong>Dimension</strong></td>
<td>109” x 37.5” (2762 mm x 953 mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Lift above ground</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scarifier</td>
<td>2’0.5” (622 mm)</td>
<td>2’0.5” (622 mm)</td>
<td>2’0.5” (622 mm)</td>
</tr>
<tr>
<td>Ripper</td>
<td>6.5” (165 mm)</td>
<td>6.5” (165 mm)</td>
<td>6.5” (165 mm)</td>
</tr>
<tr>
<td><strong>Machine length with dozer blade</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

14
G140  G170  G200  Base & Optional Equipment

**STANDARD EQUIPMENT**

**POWER TRAIN**
- Rear axle Lim. Slip or Lock/Unlock differential
- Wet disc brakes effective on all four wheels (G140 & G170)
- Rear axle with Lock/Unlock differential
- Wet disc brakes effective on all four wheels (G200)
- Front axle, high strength with 24.5” (622 mm) ground clearance
- 19° oscillation on each side
- 17.5° wheel lean to left and right

**TIRES**
- 14.00 x 24 10 ply G2 (9" 1-piece rim)

**HYDRAULICS**
- Closed center, load-sensing hydraulic system
- Controls for all hydraulic functions
- 9-section control valve
- Front, rear attachment piping, valve
- Hydraulic moldboard side shift and pitch saddle with 5 positions
- 12’ x .875” moldboard (G140)
- 14’ x .875” moldboard (G170)
- 14’ x .875” moldboard (G200)
- Rear pull hook

**TRANSMISSION**
- Direct drive countershaft Powershift transmission with electronic shift control and inching pedal
- 8 forward/4 reverse speeds

**OPERATOR STATION**
- Low Profile ROPS cab
- Suspension seat, Safety glass
- Left and right entrance and exit
- Front and rear wipers with washers
- Special sound suppression – 77 dBA in cab
- Supplemental steering
- Dome lights
- Inside rear-view mirror
- Outside rear-view mirrors
- Sunshade
- Cup holder
- 12-volt outlet
- Ashtray
- AM/FM radio
- Provision for radio (G200)
- Master switch
- Heater/defroster
- Air conditioning

**INSTRUMENTS**
- Gauges:
  - Engine oil pressure
  - Fuel level
  - Engine coolant temperature
  - Transmission oil pressure
  - Transmission oil temperature
- Audible and visible data monitor system:
  - Engine oil pressure
  - Engine coolant temperature
  - Transmission oil pressure
  - Transmission oil temperature
  - Brake oil pressure
  - Battery charge
  - Hourmeter
  - Tachometer
  - Parking brake applied
  - Air and hydraulic oil filter restriction

**ELECTRICAL**
- 24-volt system w/master disconnect switch
- 2 headlights
- Turn signals, front and rear
- 2 stop lights
- 2 tail lights
- 2 rear flood lights
- 2 work lights, above the moldboard
- Back-up alarm
- 80 amp alternator
- 2 1010 CCA batteries
- Emergency flasher

**INSTALLED OPTIONS**

**MOLDBOARD**
- 12’ x .875” moldboard (G170 & G200)
- 13’ x .875” moldboard (G140, G170 & G200)
- 14’ x .875” moldboard (G140)
- Moldboard extensions, lefthand & righthand, 2’ each
- Moldboard float control
- Moldboard rock bits, lefthand & righthand

**CAB**
- High profile cab or ROPS canopy
- Lower cab floodlights
- Cab-mounted floodlights
- Tool box - w/o tools
- Tool box - deluxe
- Strobe light
- Front lower washer

**SPECIAL ORDER OPTIONS**

**CAB**
- Delete air conditioner/heater
- Rear washer (for open cab only)
- Delete cab (includes open cab, A/C, alternator deducts)
- Rear washer (for open cab only)

**TIRES**
- 14.00 x 24 10 ply G2 (9" 1-piece rim)
- 17.50 x 25 12 ply L2 (14" 3-piece rim)
- 17.50 x 25 12 ply L2 (14" 3-piece rim)
- 17.50 x 25 16 ply L3 (14" 3-piece rim)
- 14 R24 XLGA Radial (9" 1-piece rim)
- 14 R24 XLGA Radial (10" 3-piece rim)

**SPARE TIRE & WHEEL**
- 14.00 x 24 12 ply G2 (9" 1-piece rim)
- 17.50 x 25 12 ply L2 (14" 3-piece rim)
- 17.50 x 25 12 ply L2 (14" 3-piece rim)
- 17.50 x 25 16 ply L3 (14" 3-piece rim)
- 14 R24 XLGA Radial (9" 1-piece rim)
- 14 R24 XLGA Radial (10" 3-piece rim)

**BLADES & ATTACHMENTS**
- Front push block
- Front scarifier, 11 position with 5 teeth
- Additional teeth for front scarifier (6)
- Accumulators for blade lift
- Accumulators for blade lift and circle shift
- Dozer skid brackets
- Front attachment float control
- Front dozer blade
- Pull hook, front
- Rear ripper
- Rear scarifier, include 5 teeth
- Front counterweight

**MISCELLANEOUS**
- Cold weather starting aid (ether type)
- Slow moving vehicle emblem
- Tire inflator pump kit

**SPECIAL ORDER OPTIONS**

**CAB**
- Delete air conditioner/heater
- Rear washer (for open cab only)
- Delete cab (includes open cab, A/C, alternator deducts)
- Rear washer (for open cab only)

**TIRES**
- 14.00 x 24 10 ply G2 (9" 1-piece rim)
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**SPARE TIRE & WHEEL**
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- 17.50 x 25 12 ply L2 (14" 3-piece rim)
- 17.50 x 25 16 ply L3 (14" 3-piece rim)
- 14 R24 XLGA Radial (9" 1-piece rim)
- 14 R24 XLGA Radial (10" 3-piece rim)
## MOTOR GRADERS

**G140**
- Net horsepower (SAE J1349)
  - 140 hp (104 kW) @ 2,200 rpm
  - 160 hp (119 kW) @ 2,200 rpm
- Operating weight
  - 29,918 lbs (13,571 kg)

**G170**
- Net horsepower (SAE J1349)
  - 180 hp (134 kW) @ 2,200 rpm
  - 190 hp (142 kW) @ 2,200 rpm
  - 205 hp (153 kW) @ 2,200 rpm
- Operating weight
  - 31,786 lbs (14,418 kg)

**G200**
- Net horsepower (SAE J1349)
  - 205 hp (153 kW) @ 2,200 rpm
- Operating weight
  - 37,739 lbs (17,118 kg)

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The purchase of a New Holland Construction machine isn’t the end, it’s the beginning of our relationship together. Consider your local New Holland Construction Equipment dealer as your partner in productivity and will work with you to supply your business needs. Whether you need assistance in selecting the right model for your operation or developing an affordable leasing or financing plan through CNH Capital, your New Holland Construction Equipment dealer can offer you sound advice because he has decades of heavy equipment experience.

Downtime can happen at any time. And that’s the best time to know you’ve got your New Holland Construction dealer’s full service capabilities. He’s the ‘one stop shop’ who is just down the street. Genuine New Holland parts and all makes parts coverage, where and when you need them. Factory-trained service technicians, warranty experts and parts manager who are construction equipment experts. Fully equipped service vehicles which can bring responsive support to you quickly, to get you back up and running. Even customized professional maintenance programs, operator and technical training. You want your New Holland equipment investment to be productive and keep your operation moving. **So do we.**

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