NEW HOLLAND

G140 G170 G200
MOTOR GRADERS

- Unsurpassed grading capability
- Superior blade design
- Precision hydraulic controls
- Spacious operator platform

NEW HOLLAND CONSTRUCTION

BUILT AROUND YOU

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

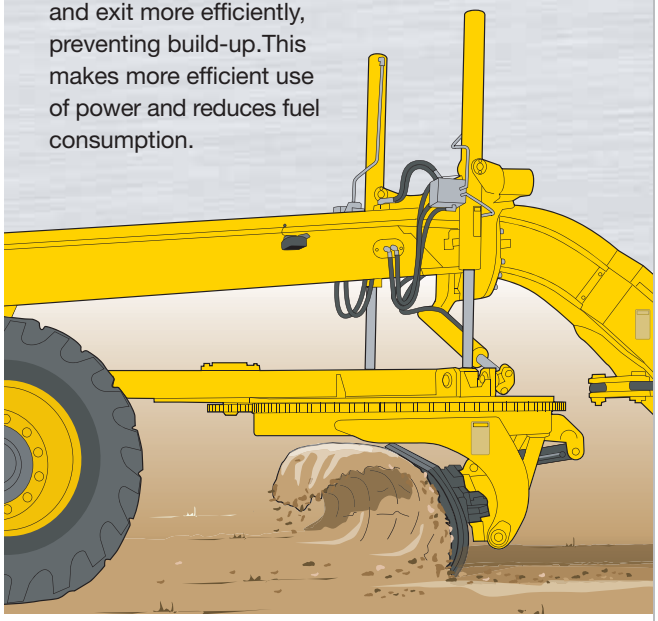
- Heavy-duty welded box section frame construction
- Front axles use an improved spherical joint between a double support to provide up to 19 degrees of oscillation (each way)
- Front wheels lean up to 17.5 degrees each way for steering control
- 24.5" of ground clearance increases jobsite maneuverability
- 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.



Model	G140 Dual Power	G170 Variable power	G200
Net horsepower	140 hp (104 kW) 160 hp (119 kW)	180 hp (134 kW) 190 hp (142 kW) 205 hp (153 kW)	205 hp (153 kW)
Displacement	409 cu. in. (6.7 L)	409 cu. in. (6.7 L)	409 cu. in. (6.7 L)
Hydraulic flow	49 gpm (187 lpm)	49 gpm (187 lpm)	49 gpm (187 lpm)
Total operating weight	29,918 lbs. (13,571 kg)	31,786 lbs. (14,418 kg)	37,739 lbs. (17,118 kg)

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 consistant 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.

OPERATOR COMFORT AND CONTROL

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

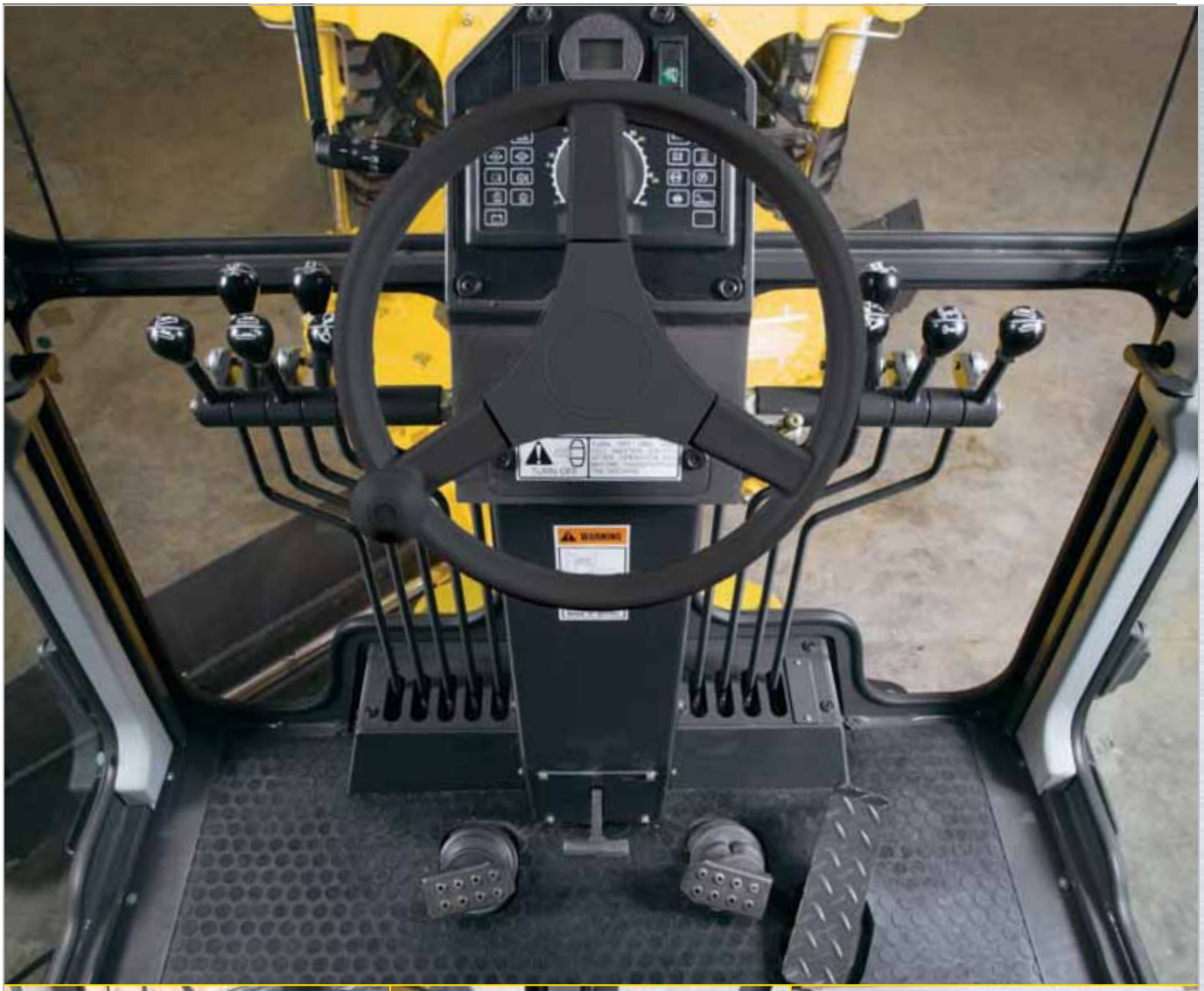
- Operator's compartment provides over 76" of head room
- Suspension seat if fully adjustable with moveable arm rests
- Adjustable operator's console includes hydraulic control levers, new smaller diameter steering wheel and indicator lights
- Optional high performance air conditioning system cranks 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.

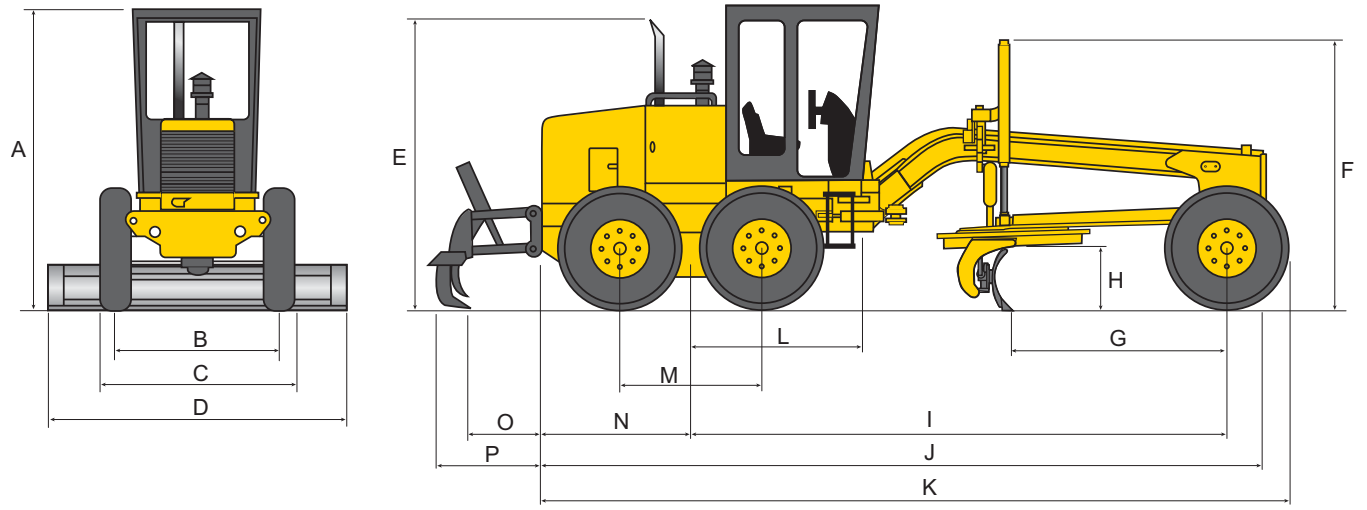
The front scarifier offers 20.75 inches of lift for excellent ground clearance and 12.5 inches of ground penetration.

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.

G140 G170 G200 Dimensions and Weights

DIMENSIONS



DIMENSIONS	G140		G170		G200	
A. Height to top of cab						
Low profile	10′4″	(3140 mm)	10′4″	(3140 mm)	10′4″	(3140 mm)
High profile	11′	(3340 mm)	11′	(3340 mm)	11′	(3340 mm)
B. Tread gauge	7′0″	(2134 mm)	7′0″	(2134 mm)	7′0″	(2134 mm)
C. Tread width	8′3″	(2510 mm)	8′3″	(2510 mm)	8′7″	(2650 mm)
D. Blade width (std.)	12′0″	(3658 mm)	13′0″	(3962 mm)	14′0″	(4267 mm)
E. Height to top of exhaust	10′11″	(3323 mm)	10′11″	(3323 mm)	10′11″	(3323 mm)
F. Height to top of lift cylinders	10′0″	(3047 mm)	10′0″	(3047 mm)	10′0″	(3047 mm)
G. Blade base	8′5″	(2562 mm)	8′5″	(2562 mm)	8′5″	(2562 mm)
H. Circle clearance	2′0″	(610 mm)	2′0″	(610 mm)	2′0″	(610 mm)
I. Wheel base	20′5″	(6219 mm)	20′5″	(6219 mm)	20′5″	(6219 mm)
J. Frame length	27′2″	(8289 mm)	27′2″	(8289 mm)	27′4″	(8327 mm)
K. Overall length	27′11″	(8521 mm)	27′11″	(8521 mm)	28′0″	(8555 mm)
L. Tandem center to articulation joint	6′5″	(1958 mm)	6′5″	(1958 mm)	6′5″	(1958 mm)
M. Tandem gauge	5′2″	(1594 mm)	5′2″	(1594 mm)	5′3″	(1602 mm)
N. Tandem center to rear frame	5′4″	(1637 mm)	5′4″	(1637 mm)	5′5″	(1662 mm)
O. Frame to ripper point	2′8″	(815 mm)	2′8″	(815 mm)	3′1″	(933 mm)
P. Overall length of ripper	3′4″	(1020 mm)	3′4″	(1020 mm)	3′8″	(1138 mm)

OPERATING WEIGHT*	G140		G170		G200	
On front wheels	8,172 lb	(3,707 kg)	9,370 lb	(4,250 kg)	11,250 lb	(5,103 kg)
On rear wheels	21,746 lb	(9,864 kg)	22,416 lb	(10,168 kg)	26,488 lb	(12,015 kg)
Total	29,918 lb	(13,571 kg)	32,077 lb	(14,550 kg)	37,738 lb	(17,118 kg)

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

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

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) (@ 1,500 rpm) low curve ..... 85 ft-lb (658 Nm)
Maximum torque (SAE J1995) (@ 1,500 rpm) high curve ..... 490 ft-lb (746 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)	2.2 mph (3.6 km/h)
2	3.2 mph (5.1 km/h)	4.4 mph (7.08 km/h)
3	4.4 mph (7.08 km/h)	8.9 mph (14.3 km/h)
4	6.2 mph (10.0 km/h)	17.7 mph (28.5 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 ..... .63″ (16 mm)
Chain pitch ..... 2.00″ (50.8 mm)
Tandem oscillation, each way ..... 20 degrees
Drive ratio 1.35:1

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

Axle type ..... Planetary with inboard wet brakes
Construction ..... Semi-floating, heat treated steel
Differential support ..... Tapered roller bearings
Inner axle bearings ..... Tapered roller
Outer axle bearings ..... Tapered roller
Bevel pinion bearings ..... Cylinder roller spigot
Gear ratios ..... Bevel set – 3.154
Planetary – 5.167
Total – 22:00
Static load capacity ..... 78,700 lbs (35000 daN)
Ground clearance ..... 14.9″ (378 mm)

BRAKE SYSTEMS

Service brakes ..... Foot operated, 4 wheel hydraulic power assist
Type ..... Wet disk
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
Size ..... 14″ (356 mm)

FRAMES

Front
Type ..... All welded box
Dimensions ..... 10.0″ x 11.73″ (254 mm x 298 mm)
Frame section weight ..... 103.1 lb/ft (153.3 kg/m)
Rear
Type ..... All welded box
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 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 ..... 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 (179.0 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 regualated by a pressure reducing valve @ 600 psi (4137 kPA)
Hydraulic system filter
Type ..... Full flow shell, paper element
Micron rating ..... 5 nominal, 25 absolute

STEERING

Front wheels
Type ..... Hydrostatic power steering
Pump ..... Gear type
Capacity @ 2200 rpm ..... 9.8 gpm (37.3 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
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
Type ..... Tier III compliant, electronic controlled, direct injected
Aspiration ..... 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)
..... @ 1,500 rpm, 601 ft-lb (811 Nm)
..... @ 1,500 rpm, 653 ft-lb (811 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”
Gears ..... 8 forward / 4 reverse

Speeds	Forward	Reverse
1	2.2 mph (3.6 km/h)	2.2 mph (3.6 km/h)
2	3.2 mph (5.1 km/h)	4.4 mph (7.08 km/h)
3	4.4 mph (7.08 km/h)	8.9 mph (14.3 km/h)
4	6.2 mph (10.0 km/h)	17.7 mph (28.5 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 ..... .63″ (16 mm)
Chain pitch ..... 2.00″ (50.8 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

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)

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
Size ..... 14″ (356 mm)

FRAMES

Front: Type ..... All welded box
- Dimensions ..... 10.0″ x 11.73″ (254 mm x 298 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 ..... 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 (179.0 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 regualated by a pressure reducing valve @ 600 psi (4137 kPA)
Hydraulic system filter
- Type ..... Full flow shell, paper element
- Micron rating ..... 5 nominal, 25 absolute

STEERING

Front wheels
- Type ..... Hydrostatic power steering
- Pump ..... 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
- Type ..... 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	Reverse
1	2.4 mph (3.86 km/h)	2.4 mph (3.86 km/h)
2	3.4 mph (5.47 km/h)	4.7 mph (7.56 km/h)
3	4.7 mph (7.56 km/h)	9.63 mph (15.45 km/h)
4	6.6 mph (10.62 km/h)	19 mph (30.64 km/h)
5	9.6 mph (15.45 km/h)	
6	13.5 mph (21.73 km/h)	
7	19 mph (30.64 km/h)	
8	26.7 mph (43 km/h)	

TANDEM DRIVE HOUSING

Welded box section wall thickness ..... .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 – 21.917:1
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

Front: Type ..... All welded box
Dimensions ..... 10.0″ x 11.73″ (254 mm x 298 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 ..... 76.8 lb/ft (114.2 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 ..... 1.2 rpm (72 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
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
Saddle lock pins: ..... Two cylinders actuated by an electric solenoid
Control valve regualated by a pressure reducing valve @ 600 psi (4137 kPa)
Hydraulic system filter
Type ..... Full flow shell, paper element
Micron rating ..... 5 nominal, 25 absolute

STEERING

Front wheels
Type ..... Hydrostatic power steering
Pump ..... 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
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)

G140 G170 G200 Blade and Attachments

BLADE	G140	G170	G200
Type	One-piece “Roll-away” involute curve with replaceable end bits and cutting edges		
Blade control	Hydraulic side shift and pitch		
Available sizes	12′ x 24.5″ x .875″ (3,658 mm x 622 mm x 22 mm) 13′ x 26.4″ x .875″ (3,962 mm x 671 mm x 22 mm) 14′ x 26.4″ x .875″ (4,267 mm x 671 mm x 22 mm)		
Lift above ground	17.5″ (445 mm)	17.5″ (445 mm)	17.5″ (445 mm)
Blade side shift, left	21″ (533 mm)	21″ (533 mm)	21″ (533 mm)
Blade side shift, right	28″ (711 mm)	28″ (711 mm)	28″ (711 mm)
Reach, outside wheels, standard blade Left Right	 77.88″ (1,978 mm) 85.63″ (2,174 mm)	 77.88″ (1,978 mm) 85.63″ (2,174 mm)	 77.88″ (1,978 mm) 85.63″ (2,174 mm)
Blade pitch range Backward Forward	 5 degrees 42 degrees	 5 degrees 42 degrees	 5 degrees 42 degrees
Bank-cutting angle, left and right	90 degrees	90 degrees	90 degrees
Blade pressure with Cab with Cab, ripper and front blade	 14,788 lb (6,722 kg) 19,191 lb (8,723 kg)	 16,063 lb (7,286 kg) 19,921 lb (9,036 kg)	 19,391 lb (8,814 kg) 22,132 lb (10,060 kg)

ATTACHMENTS	G140	G170	G200
FRONT SCARIFIER:			
Type	Parallelogram, front mounted		
Weight (5 teeth)	1,256 lb (570 kg)	1,256 lb (570 kg)	1,256 lb (570 kg)
Width	3′10″ (1168 mm)	3′10″ (1168 mm)	3′10″ (1168 mm)
Number of teeth Standard Optional	 5 11	 5 11	 5 11
Width between teeth 5 teeth 11 teeth	 9″ (229 mm) 4.5″ (114 mm)	 9″ (229 mm) 4.5″ (114 mm)	 9″ (229 mm) 4.5″ (114 mm)
Lift above ground	1′8.75″ (527 mm)	1′8.75″ (527 mm)	1′8.75″ (527 mm)
Machine length with front scarifier	31′0″ (9449 mm)	31′0″ (9449 mm)	31′0″ (9449 mm)
REAR RIPPER AND SCARIFIER:			
Type	Parallelogram, rear mounted		
Weight	1,378 lb (625 kg)	2,172 lb (985 kg)	2,172 lb (985 kg)
Width	7′2″ (2195 mm)	7′2″ (2195 mm)	7′2″ (2195 mm)
Number of teeth Scarifier Ripper	 5 (standard) 5 (standard)	 5 (standard) / 9 (optional) 3 (standard) / 5 (optional)	 5 (standard) / 9 (optional) 3 (standard) / 5 (optional)
Width between teeth	10.6″ (scarifier)	10.6″ (scarifier)	10.6″ (scarifier)
Lift above ground (ripper teeth)	1′8″ (505 mm)	1′8.4″ (518 mm)	1′8.4″ (518 mm)
Penetration (ripper teeth)	1′2″ (350 mm)	1′5.2″ (437 mm)	1′5.2″ (437 mm)
Machine length with ripper	31′4″ (9550 mm)	31′4″ (9550 mm)	31′4″ (9550 mm)
DOZER BLADE:			
Type	Front mounted		
Weight	2,568 lb (1,165 kg)	2,568 lb (1,165 kg)	2,568 lb (1,165 kg)
Dimension	109″ x 37.5″ (2762 mm x 953 mm)		
Lift above ground	2′0.5″ (622 mm)	2′0.5″ (622 mm)	2′0.5″ (622 mm)
Penetration	6.5″ (165 mm)	6.5″ (165 mm)	6.5″ (165 mm)
Machine length with dozer blade	30′11″ (9423 mm)	30′11″ (9423 mm)	30′11″ (9423 mm)

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) 30 psi

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

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 12 ply G2 (10″ 3-piece rim)
17.50 x 25 12 ply L2 (13″ 1-piece rim)
17.50 x 25 12 ply L2 (14″ 1-piece or 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) spare tire & wheel
17.50 x 25 12 ply L2 (13″ 1-piece rim) spare tire & wheel
17.50 x 25 12 ply L2 (14″ 3-piece rim) spare tire & wheel
17.50 x 25 12 ply L3 (14″ 3-piece rim) spare tire & wheel
17.50 x 25 16 ply L3 (14″ 3-piece rim) spare tire & wheel
Spare 9″ one-piece rim
Set of 10″ 3-piece rims

MISCELLANEOUS
Spec paint
Special order options require a minimum of 90 days lead time for delivery.

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

Variable Power Ratings
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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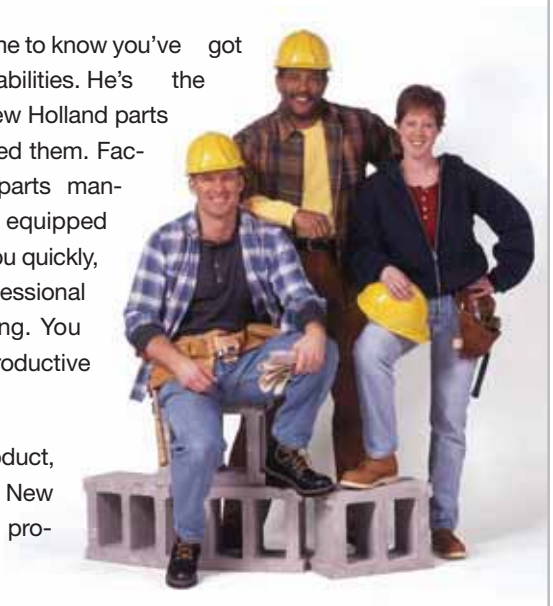

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