

# Product Specifications For 150 / 150 AWD - Tier 4 / Stage 5

## Engine

<b>Net Power Range (Tier 4)</b>	200 hp
<b>Engine Model</b>	Cat® C9.3
<b>Bore</b>	4.5 in
<b>Stroke</b>	5.9 in
<b>Speed at Rated Power</b>	2,000 rpm
<b>VHP Plus - Gear - Net Power - Reverse 1st</b>	200 hp
<b>VHP Plus - Gear - Net Power - Forward 1st</b>	200 hp
<b>Maximum Torque - VHP Plus</b>	920 lb/ft
<b>VHP Plus - Gear - Net Power - Forward 8th</b>	252 hp
<b>VHP Plus - Gear - Net Power - Forward 6th</b>	241 hp
<b>VHP Plus - Gear - Net Power - Forward 2nd</b>	210 hp
<b>Emissions</b>	U.S. EPA Tier 4 Final/EU Stage V
<b>VHP Plus - Gear - Net Power - Forward 7th</b>	247 hp
<b>High Ambient - Fan Speed - Standard</b>	1,400 rpm
<b>VHP Plus - Gear - Net Power - Forward 5th</b>	236 hp
<b>VHP Plus Range - Net - Metric</b>	149-188 kW (202-255 hp)
<b>Standard Capability</b>	109 °F

<b>VHP Plus - Gear - Net Power - Reverse 3rd-6th</b>	220 hp
<b>VHP Plus - Gear - Net Power - Forward 4th</b>	231 hp
<b>Base Power (1st Gear) - Net - Metric</b>	202 hp
<b>VHP Plus Range - Net</b>	149-188 kW (200-252 hp)
<b>VHP Plus - Gear - Net Power - Reverse 2nd</b>	210 hp
<b>VHP Plus - Gear - Net Power - Forward 3rd</b>	220 hp
<b>Torque Rise</b>	39%
<b>Displacement</b>	567.5 in <sup>3</sup>
<b>Number of Cylinders</b>	6
<b>Derating Altitude</b>	10000 ft
<b>High Ambient - Fan Speed - Maximum</b>	1,550 rpm
<b>High Ambient - Fan Speed - Minimum</b>	500 rpm
<b>High - Ambient Capability</b>	122 °F

## Weights

<b>Operating Weight - Typically Equipped</b>	43950 lb
<b>Gross Vehicle Weight - Maximum - Front Axle</b>	17075 lb
<b>Gross Vehicle Weight - Maximum - Rear Axle</b>	38069 lb
<b>Operating Weight - Typically Equipped - Front Axle</b>	12549 lb
<b>Operating Weight - Typically Equipped - Rear Axle</b>	31401 lb

<b>Gross Vehicle Weight - Base - Front Axle</b>	9601 lb
<b>Gross Vehicle Weight - Base - Rear Axle</b>	28590 lb
<b>Gross Vehicle Weight - Maximum - Total</b>	55144 lb
<b>Gross Vehicle Weight - Base - Total</b>	38191 lb
<b>Operating Weight - Typically Equipped - Total</b>	43950 lb

## Power Train

<b>Forward/Reverse Gears</b>	8 Forward/6 Reverse
<b>Transmission</b>	APECS, Direct Drive, Powershift
<b>Brakes - Service</b>	Multiple Oil Disc
<b>Brakes - Service - Surface Area</b>	3565 in <sup>2</sup>
<b>Brakes - Parking</b>	Multiple Oil Disc
<b>Brakes - Secondary</b>	Dual Circuit

## Moldboard

<b>Blade Width</b>	12 ft
<b>Moldboard - Height</b>	24 in
<b>Moldboard - Thickness</b>	0.87 in
<b>Arc Radius</b>	16.3 in
<b>Throat Clearance</b>	6.5 in
<b>Cutting Edge Width</b>	6 in
<b>Cutting Edge Thickness</b>	0.6 in

<b>End Bit - Width</b>	6 in
<b>End Bit - Thickness</b>	0.6 in
<b>Blade Pull - Base GVW</b>	25732 lb
<b>Blade Pull - Maximum GVW</b>	34262 lb
<b>Blade Down Pressure - Base GVW</b>	16480 lb
<b>Blade Down Pressure - Maximum GVW</b>	29308 lb
<b>Moldboard - Blade Width</b>	12 ft

## Hydraulic System

<b>Circuit Type</b>	Parallel
<b>Pump Type</b>	Variable Piston
<b>Pump Output</b>	55.7 gal/min
<b>Maximum System Pressure</b>	3500 psi
<b>Reservoir Tank Capacity</b>	16.9 gal (US)
<b>Standby Pressure</b>	885 psi

## Operating Specifications

<b>Top Speed - Forward</b>	29 mile/h
<b>Top Speed - Reverse</b>	23 mile/h
<b>Turning Radius - Outside Front Tires</b>	25.59 ft
<b>Steering Range - Left/Right</b>	50°
<b>Articulation Angle - Left/Right</b>	20°

<b>Forward - 1st</b>	2.5 mile/h
<b>Forward - 2nd</b>	3.4 mile/h
<b>Forward - 3rd</b>	5 mile/h
<b>Forward - 4th</b>	6.9 mile/h
<b>Forward - 5th</b>	10.6 mile/h
<b>Forward - 6th</b>	14.5 mile/h
<b>Forward - 7th</b>	19.9 mile/h
<b>Forward - 8th</b>	29 mile/h
<b>Reverse - 1st</b>	2 mile/h
<b>Reverse - 2nd</b>	3.7 mile/h
<b>Reverse - 3rd</b>	5.4 mile/h
<b>Reverse - 4th</b>	8.4 mile/h
<b>Reverse - 5th</b>	15.7 mile/h
<b>Reverse - 6th</b>	23 mile/h

## **Service Refill**

<b>Fuel Capacity</b>	104 gal (US)
<b>Cooling System</b>	15 gal (US)
<b>Hydraulic System - Total</b>	26.4 gal (US)
<b>Hydraulic System - Tank</b>	16.9 gal (US)

<b>Transmission - Differential - Final Drives</b>	18.5 gal (US)
---	---------------

<b>Diesel Exhaust Fluid</b>	5.8 gal (US)
-----------------------------	--------------

<b>Engine Oil</b>	7.9 gal (US)
-------------------	--------------

<b>Tandem Housing - Each</b>	20 gal (US)
------------------------------	-------------

<b>Front Wheel Spindle Bearing Housing</b>	0.13 gal (US)
--	---------------

<b>Circle Drive Housing</b>	1.8 gal (US)
-----------------------------	--------------

## Frame

<b>Drawbar - Width</b>	3 in
------------------------	------

<b>Circle - Diameter</b>	60.2 in
--------------------------	---------

<b>Circle - Blade Beam Thickness</b>	1.6 in
--------------------------------------	--------

<b>Drawbar - Height</b>	6 in
-------------------------	------

<b>Front Frame Structure - Width</b>	12 in
--------------------------------------	-------

<b>Front Frame Structure - Height</b>	12.6 in
---------------------------------------	---------

<b>Circle - Height</b>	5.4 in
------------------------	--------

<b>Drawbar - Thickness</b>	0.5 in
----------------------------	--------

<b>Front-Top/Bottom Plate - Width</b>	12 in
---------------------------------------	-------

<b>Front-Top/Bottom Plate - Thickness</b>	0.87 in
---	---------

<b>Front Axle - Height to Center</b>	23.5 in
--------------------------------------	---------

<b>Front Axle - Wheel Lean - Left/Right</b>	18°
---	-----

Front Axle - Total Oscillation per Side

32°

## Tandems

Height	19.9 in
Width	7.9 in
Sidewall Thickness - Inner	0.63 in
Sidewall Thickness - Outer	0.71 in
Drive Chain Pitch	2 in
Wheel Axle Spacing	60 in
Tandem Oscillation - Front Up	15°
Tandem Oscillation - Front Down	25°

## Blade Range

Circle Centershift - Right	28.7 in
Circle Centershift - Left	27.4 in
Moldboard Sideshift - Right	26 in
Moldboard Sideshift - Left	20.1 in
Maximum Blade Position Angle	90°
Blade Tip Range - Forward	40°
Blade Tip Range - Backward	5°
Maximum Shoulder Reach Outside of Tires - Right	77.9 in
Maximum Shoulder Reach Outside of Tires - Left	70.5 in

<b>Maximum Lift Above Ground</b>	18.9 in
----------------------------------	---------

<b>Maximum Depth of Cut</b>	28.1 in
-----------------------------	---------

## Ripper

<b>Ripper Shank Holder Spacing</b>	21 in
------------------------------------	-------

<b>Ripping Depth - Maximum</b>	16.8 in
--------------------------------	---------

<b>Ripper Shank Holders</b>	5
-----------------------------	---

<b>Penetration Force</b>	20812 lb
--------------------------	----------

<b>Pry-Out Force</b>	27794 lb
----------------------	----------

<b>Machine Length Increase, Beam Raised</b>	40.6 in
---	---------

## Scarifier

<b>Front, V-Type, 5 or 11 Tooth - Scarifier Shank Holders</b>	11-May
---	--------

<b>Front, V-Type, 5 or 11 Tooth - Scarifying Depth, Maximum</b>	18.4 in
---	---------

<b>Rear - Scarifying Depth, Maximum</b>	16.8 in
---	---------

<b>Mid, V-Type - Working Width</b>	46.6 in
------------------------------------	---------

<b>Front, V-Type - Working Width</b>	47.4 in
--------------------------------------	---------

<b>Front, V-Type, 5 or 11 Tooth - Working Width</b>	40.6 in
---	---------

<b>Mid, V-Type - Scarifying Depth, Maximum</b>	11.5 in
--	---------

<b>Mid, V-Type - Scarifier Shank Holders</b>	11
--	----

<b>Mid, V-Type - Scarifier Shank Holder Spacing</b>	4.6 in
---	--------

<b>Front, V-Type, 5 or 11 Tooth - Scarifier Shank Holder Spacing</b>	4.6 in
--	--------



<b>Rear - Working Width</b>	84 in
<b>Rear - Scarifier Shank Holders</b>	9
<b>Rear - Scarifier Shank Holder Spacing</b>	10.5 in

## Dimensions

<b>Height - Top of Cab</b>	130 in
<b>Length - Counterweight to Ripper</b>	399 in
<b>Width - Outside Front Tires</b>	98.9 in
<b>Length - Front Axle to Mid Tandem</b>	241 in
<b>Length - Front Tire to Rear of Machine</b>	351 in
<b>Length - Front Axle to Moldboard</b>	100 in
<b>Length - Between Tandem Axles</b>	60 in
<b>Width - Outside Rear Tires</b>	98.9 in
<b>Width - Tire Center Lines</b>	84.3 in
<b>Height - Front Axle Center</b>	23.5 in
<b>Height - Exhaust Stack</b>	128 in
<b>Height - Top of Cylinders</b>	120 in
<b>Ground Clearance - Rear Axle</b>	13.3 in

## Standards

<b>Steering</b>	ISO 5010
<b>ROPS/FOPS</b>	ISO 3471/ISO 3449

**Brakes**

ISO 3450

**Sound**

ISO 6394; ISO 6395

## Air Conditioning System

### **Air Conditioning**

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.8 kg of refrigerant which has a CO2 equivalent of 2.574 metric tonnes.

## 150 / 150 AWD - Tier 4 / Stage 5 Standard Equipment

### NOTE

Standard and optional equipment may vary. Consult your Cat dealer for details.

### POWER TRAIN

Air cleaner, dual stage, dry type, diesel, with automatic engine derate and automatic dust ejector, service indicator through Cat Messenger

Air-to-air after cooler (ATAAC)

Belt, serpentine, automatic tensioner

Brakes, oil disc, four-wheel, hydraulic

Demand fan, hydraulic, swing-out

Diesel exhaust fluid tank, 22.0 L (5.8 gal) ground level access, and sediment drain

Differential Lock/Unlock, Automatic

Drain, engine oil, ecology

Economy mode

Electronic over speed protection

Engine, C9.3 U.S. EPA Tier 4 Final/EU Stage V emission standards

Fuel tank, 394 L (104 gal), ground level access and sediment drain

Parking brake - multi-disc, sealed, oil-cooled

Priming pump, fuel

Rear axle, modular

Sediment drain, fuel tank

Tandem drive

Transmission, 8F/6R, powershift, direct drive, Advanced Productivity Electronic Control Strategy (APECS)

### ELECTRICAL

Alarm, back up

Alternator, 150 ampere, sealed

Batteries, maintenance free, heavy duty, 1125 CCA

Breaker panel, ground accessible

Cab harness and electrical hydraulic valves

Electrical system, 24V

Grade Control Ready - Cab harness, software, electrical hydraulic valves, bosses and brackets

Lights, roof-mounted roading, reversing, LED stop and tail

Product Link

Starter, electric

### OPERATOR ENVIRONMENT

Accelerator

... ..

Air conditioning with heater  
 Arm and wrist rest, electronically adjustable  
 Articulation, automatic Return-to-Center  
 Cat Messenger operator information system  
 Centershift pin indicator  
 Coat hook  
 Cup holder  
 Display, digital speed and gear  
 Doors, left and right side with wiper  
 Gauge, machine level  
 Gauge cluster (analog) - fuel, articulation, engine coolant temp, engine RPM, hydraulic oil temp, regen, DEF  
 Hour meter, digital  
 Joystick hydraulic controls right/left blade lift with float position, circle drive, blade sideshift and tip, centershift, front wheel lean, articulation and power steering  
 Joystick, adjustable armrests  
 Joystick gear selection  
 Joystick hydraulic power steering  
 Ladders, cab, left and right side  
 Lights, night time cab  
 Mirror, inside rearview, wide angle  
 Power port, 12V  
 Radio Ready, Entertainment  
 ROPS cab, sound suppressed 70 dB(A)  
 Seat, cloth-covered, comfort suspension  
 Seat belt, retractable 76 mm (3 in)  
 Storage area for cooler/lunchbox  
 Throttle control, electronic  
 Windows, laminated glass: - fixed front with intermittent wiper - door with intermittent wipers (3)  
 Windows: tempered: - left and right side wipers - rear and intermittent wiper

## **FLUIDS**

Antifreeze  
 Extended Life Coolant to -35° C (-30° F)

## **TIRES, RIMS AND WHEELS**

Partial allowance for tires on 254 — 607 mm (10 — 24 in) multi-piece rims is included in the base machine price and weight

## **OTHER STANDARD EQUIPMENT**

Accumulators, brake, dual certified  
 Anti-glare paint  
 Bumper, rear, integrated with hitch  
 CD ROM Parts Book  
 Clutch, circle drive slip  
 Cutting edges: - 152 — 16 mm (6 — 5/8 in) - curved DH-2 steel - 19 mm (3/4 in) mounting bolts  
 Doors (3), engine compartment, locking  
 Drawbar - 6 shoes, replaceable wear strips  
 Electrical hydraulic valves, hydraulic lines for base 8 functions  
 Endbits: - 16 mm (5/8 in) DH-2 steel - 19 mm (3/4 in) mounting bolts  
 Fluid check, ground level  
 Frame, articulated, with safety lock  
 Ground level engine shutdown  
 Hammer (emergency exit)  
 Horn, electric  
 Hydraulic lines for base functions  
 Lockout, hydraulic implement (for roading and servicing)

.. . . .

Moldboard  
Mounting, cab roof accessories  
Pump, hydraulic, high capacity, 98 cm<sup>3</sup> (6 in<sup>3</sup>)  
Radiator, cleanout access (both sides with swing doors)  
Secondary steering  
Serviceability, LH side  
S·O·S,, ports:engine, hydraulic, transmission, coolant, fuel  
Tandem walkway/guards  
Tool box

## **150 / 150 AWD - Tier 4 / Stage 5 Optional Equipment**

### **NOTE**

Standard and optional equipment may vary. Consult your Cat dealer for details.

### **ELECTRICAL**

Alternator, 280 ampere  
Batteries: extreme duty, 1,400 CCA  
Lights: Headlights, high  
Lights: Headlights, low  
Lights: Working lights, basic  
Lights: Working lights, plus, LED  
Lights: Warning: beacon or strobe  
Lights: Mounting for warning light

### **GUARDS**

Articulation guard  
Fenders, front  
Fenders, rear  
Front axle guard  
Sound suppression (bottom)  
Sound suppression (enclosure)  
Transmission

### **OPERATOR ENVIRONMENT**

Mirrors, outside: heated 24V  
Mirrors, outside: mounted  
Comfort Plus Arrangement  
Comfort Premium Arrangement

### **POWER TRAIN**

All Wheel Drive  
Precleaner, snow  
Starter, extreme duty, 1,000 Amps  
Transmission, autoshift

### **OTHER ATTACHMENTS**

Attachment Ready Option (ARO)  
Cross Slope  
Accumulators, blade lift  
Camera, rearview  
Cat Product Link 321SR  
Cat Product Link 522

Drain, ecology, engine Wiggins

Heater, engine coolant: 120V

Heater, engine coolant: 240V

Hydraulic arrangements with one or more additional hydraulic valves are available for rear ripper, dozer, snow plow and snow wing.

Snow wing mounting, frame ready

Starting aid, ether

Reversing fan, automatic or manual

Cat Grade with 3D

## **WORK TOOLS/G.E.T.**

Blade extension, left hand, 610 mm (2 ft)

Blade extension, right hand, 610 mm (2 ft)

Counterweight

Cutting edges, curved

Endbits, overlay

Front lift group, mounting

Front lift group, mechanical

Grader bit, narrow and super penetration

Mid-Mount Scarifier, Package

Moldboard: 4267 mm — 610 mm — 22 mm (14 ft — 24 in — 7/8 in)

Moldboard: 4267 mm — 686 mm — 25 mm (14 ft — 27 in — 1 in)

Push plate

Ripper, rear

Ripper tooth

Scarifier, front

Snow Arrangement

Snow Wing Ready Package

Tow hitch

## **MACHINE ARRANGEMENTS**

Canadian Arrangement

European Arrangement

TUV Rooding Arrangement

## **OPTIONAL TIRE ARRANGEMENTS**

Rim Size - 9 × 24; Wheel Group - Single-Piece; Tires - 14.0R24

Rim Size - 13 × 25; Wheel Group - Single-Piece; Tires - 17.5R25

Rim Size - 10 × 24; Wheel Group - Multi-Piece; Tires - 14.0R24

Rim Size - 10 × 24; Wheel Group - Multi-Piece; Tires - 14.0-24

Rim Size - 14 × 25; Wheel Group - Multi-Piece; Tires - 17.5R25

Rim Size - 14 × 25; Wheel Group - Multi-Piece; Tires - 17.5-25

Note: Consult your dealer for individual tire width, size and brand.