

PRODUCT SPECIFICATIONS FOR 150 / 150 AWD - TIER 4 / STAGE 5



ENGINE

Net Power Range (Tier 4)	149 kW
Engine Model	Cat® C9.3
Bore	115 mm
Stroke	149 mm
Speed at Rated Power	2,000 rpm
VHP Plus - Gear - Net Power - Reverse 1st	149 kW
VHP Plus - Gear - Net Power - Forward 1st	149 kW
Maximum Torque - VHP Plus	1247 N·m
VHP Plus - Gear - Net Power - Forward 8th	188 kW
VHP Plus - Gear - Net Power - Forward 6th	180 kW
VHP Plus - Gear - Net Power - Forward 2nd	156 kW
Emissions	U.S. EPA Tier 4 Final/EU Stage V
VHP Plus - Gear - Net Power - Forward 7th	184 kW
High Ambient - Fan Speed - Standard	1,400 rpm
VHP Plus - Gear - Net Power - Forward 5th	176 kW
VHP Plus Range - Net - Metric	149-188 kW (202-255 hp)
Standard Capability	43 °C

VHP Plus - Gear - Net Power - Reverse 3rd-6th	164 kW
VHP Plus - Gear - Net Power - Forward 4th	172 kW
Base Power (1st Gear) - Net - Metric	149 kW
VHP Plus Range - Net	149-188 kW (200-252 hp)
VHP Plus - Gear - Net Power - Reverse 2nd	156 kW
VHP Plus - Gear - Net Power - Forward 3rd	164 kW
Torque Rise	39%
Displacement	9.3 l
Number of Cylinders	6
Derating Altitude	3050 m
High Ambient - Fan Speed - Maximum	1,550 rpm
High Ambient - Fan Speed - Minimum	500 rpm
High - Ambient Capability	50 °C

POWER TRAIN

Forward/Reverse Gears	8 Forward/6 Reverse
Transmission	APECS, Direct Drive, Powershift
Brakes - Service	Multiple Oil Disc
Brakes - Service - Surface Area	23000 cm²
Brakes - Parking	Multiple Oil Disc

Brakes - Secondary	Dual Circuit
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HYDRAULIC SYSTEM

Circuit Type	Parallel
Pump Type	Variable Piston
Pump Output	210 l/min
Maximum System Pressure	24150 kPa
Reservoir Tank Capacity	64 l
Standby Pressure	6100 kPa

OPERATING SPECIFICATIONS

Top Speed - Forward	46.6 km/h
Top Speed - Reverse	36.8 km/h
Turning Radius - Outside Front Tires	7.8 m
Steering Range - Left/Right	50°
Articulation Angle - Left/Right	20°
Forward - 1st	4.1 km/h
Forward - 2nd	5.5 km/h
Forward - 3rd	8 km/h
Forward - 4th	11 km/h
Forward - 5th	17.1 km/h
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Forward - 6th	23.3 km/h
Forward - 7th	32 km/h
Forward - 8th	46.6 km/h
Reverse - 1st	3.2 km/h
Reverse - 2nd	6 km/h
Reverse - 3rd	8.7 km/h
Reverse - 4th	13.5 km/h
Reverse - 5th	25.3 km/h
Reverse - 6th	36.8 km/h

SERVICE REFILL

Fuel Capacity	394 l
Cooling System	57 l
Hydraulic System - Total	100 l
Hydraulic System - Tank	64 l
Transmission - Differential - Final Drives	70 l
Diesel Exhaust Fluid	22 l
Engine Oil	30 l
Tandem Housing - Each	76 l
Front Wheel Spindle Bearing Housing	0.5 l
Circle Drive Housing	7 l

FRAME

Drawbar - Width	76.2 mm
Circle - Diameter	1530 mm
Circle - Blade Beam Thickness	40 mm
Drawbar - Height	152 mm
Front Frame Structure - Width	305 mm
Front Frame Structure - Height	321 mm
Circle - Height	138 mm
Drawbar - Thickness	12.7 mm
Front-Top/Bottom Plate - Width	305 mm
Front-Top/Bottom Plate - Thickness	22 mm
Front Axle - Height to Center	596 mm
Front Axle - Wheel Lean - Left/Right	18°
Front Axle - Total Oscillation per Side	32°

TANDEMS

Height	506 mm
Width	201 mm
Sidewall Thickness - Inner	16 mm
Sidewall Thickness - Outer	18 mm
Drive Chain Pitch	50.8 mm

Wheel Axle Spacing	1523 mm
Tandem Oscillation - Front Up	15°
Tandem Oscillation - Front Down	25°

MOLDBOARD

Blade Width	3.7 m
Moldboard - Height	610 mm
Moldboard - Thickness	22 mm
Arc Radius	413 mm
Throat Clearance	166 mm
Cutting Edge Width	152 mm
Cutting Edge Thickness	16 mm
End Bit - Width	152 mm
End Bit - Thickness	16 mm
Blade Pull - Base GVW	11672 kg
Blade Pull - Maximum GVW	15541 kg
Blade Down Pressure - Base GVW	7475 kg
Blade Down Pressure - Maximum GVW	13294 kg
Moldboard - Blade Width	3.7 m

BLADE RANGE

Blade Pull - Maximum GVW	700
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Circle Centershift - Right	728 mm
Circle Centershift - Left	695 mm
Moldboard Sideshift - Right	660 mm
Moldboard Sideshift - Left	510 mm
Maximum Blade Position Angle	90°
Blade Tip Range - Forward	40°
Blade Tip Range - Backward	5°
Maximum Shoulder Reach Outside of Tires - Right	1978 mm
Maximum Shoulder Reach Outside of Tires - Left	1790 mm
Maximum Lift Above Ground	480 mm
Maximum Depth of Cut	715 mm

RIPPER

Ripper Shank Holder Spacing	533 mm
Ripping Depth - Maximum	426 mm
Ripper Shank Holders	5
Penetration Force	9440 kg
Pry-Out Force	12607 kg
Machine Length Increase, Beam Raised	1031 mm

SCARIFIER

Front, V-Type, 5 or 11 Tooth - Scarifier Shank Holders	11-May
Front, V-Type, 5 or 11 Tooth - Scarifier Shank Holders	11-May

Front, V-Type, 5 or 11 Tooth - Scarifying Depth, Maximum	467 mm
Rear - Scarifying Depth, Maximum	426 mm
Mid, V-Type - Working Width	1184 mm
Front, V-Type - Working Width	1205 mm
Front, V-Type, 5 or 11 Tooth - Working Width	1031 mm
Mid, V-Type - Scarifying Depth, Maximum	292 mm
Mid, V-Type - Scarifier Shank Holders	11
Mid, V-Type - Scarifier Shank Holder Spacing	116 mm
Front, V-Type, 5 or 11 Tooth - Scarifier Shank Holder Spacing	116 mm
Rear - Working Width	2133 mm
Rear - Scarifier Shank Holders	9
Rear - Scarifier Shank Holder Spacing	267 mm

WEIGHTS

Operating Weight - Typically Equipped	19935 kg
Gross Vehicle Weight - Maximum - Front Axle	7745 kg
Gross Vehicle Weight - Maximum - Rear Axle	17268 kg
Operating Weight - Typically Equipped - Front Axle	5692 kg
Operating Weight - Typically Equipped - Rear Axle	14243 kg
Gross Vehicle Weight - Base - Front Axle	4355 kg
Gross Vehicle Weight - Base - Rear Axle	12968 kg

Gross Vehicle Weight - Maximum - Total	25013 kg
Gross Vehicle Weight - Base - Total	17323 kg
Operating Weight - Typically Equipped - Total	19935 kg

DIMENSIONS

Height - Top of Cab	3308 mm
Length - Counterweight to Ripper	10136 mm
Width - Outside Front Tires	2511 mm
Length - Front Axle to Mid Tandem	6123 mm
Length - Front Tire to Rear of Machine	8912 mm
Length - Front Axle to Moldboard	2552 mm
Length - Between Tandem Axles	1523 mm
Width - Outside Rear Tires	2511 mm
Width - Tire Center Lines	2140 mm
Height - Front Axle Center	596 mm
Height - Exhaust Stack	3256 mm
Height - Top of Cylinders	3040 mm
Ground Clearance - Rear Axle	339 mm

STANDARDS

Steering	ISO 5010
ROPS/FOPS	ISO 2474/ISO 2440

ROPS/FOPS

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 cm³ (6 in³)

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 side guard

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.