

PRODUCT SPECIFICATIONS FOR 160 / 160 AWD - TIER 4 / STAGE 5



ENGINE

Base Power (1st Gear) - Net	165 kW
Engine Model	Cat® C9.3
Bore	115 mm
Stroke	149 mm
Speed at Rated Power	2,000 rpm
VHP Plus - Gear - Net Power - Forward 1st	165 kW
Standard Capability	43 °C
Torque Rise	39%
VHP Plus - Gear - Net Power - Forward 8th	203 kW
VHP Plus - Gear - Net Power - Forward 3rd	180 kW
VHP Plus - Gear - Net Power - Forward 4th	188 kW
VHP Plus - Gear - Net Power - Forward 2nd	172 kW
VHP Plus - Gear - Net Power - Forward 6th	195 kW
Maximum Torque - VHP Plus	1355 N·m
VHP Plus Range - Net	165-203 kW (221-272 hp)
VHP Plus - Gear - Net Power - Forward 7th	199 kW
VHP Plus - Gear - Net Power - Reverse 1st	165 kW

Base Power (1st Gear) - Net - Metric	165 kW
High Ambient - Fan Speed - Standard	1,400 rpm
VHP Plus - Gear - Net Power - Forward 5th	191 kW
VHP Plus - Gear - Net Power - Reverse 2nd	172 kW
VHP Plus Range - Net - Metric	165-203 kW (224-276 hp)
Emissions	U.S. EPA Tier 4 Final/EU Stage V
VHP Plus - Gear - Net Power - Reverse 3rd-6th	180 kW
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 cm ²
Brakes - Parking	Multiple Oil Disc

Brakes - Secondary

Dual Circuit Control

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

47.4 km/h

Top Speed - Reverse

37.4 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

5.6 km/h

Forward - 3rd

8.1 km/h

Forward - 4th

11.2 km/h

Forward - 5th

17.4 km/h

Forward - 6th	23.7 km/h
Forward - 7th	32.6 km/h
Forward - 8th	47.4 km/h
Reverse - 1st	3.3 km/h
Reverse - 2nd	6.1 km/h
Reverse - 3rd	8.8 km/h
Reverse - 4th	13.7 km/h
Reverse - 5th	25.7 km/h
Reverse - 6th	37.4 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	87 l
Front Wheel Spindle Bearing Housing	0.5 l
Circle Drive Housing	7 l

FRAME

Drawbar - Width	76.2 mm
Circle - Diameter	1553 mm
Circle - Blade Beam Thickness	40 mm
Drawbar - Height	152 mm
Front Frame Structure - Width	305 mm
Circle - Height	160 mm
Front Frame Structure - Height	321 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	572 mm
Width	204 mm
Sidewall Thickness - Inner	17.5 mm
Sidewall Thickness - Outer	18 mm
Drive Chain Pitch	50.8 mm

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

Blade Width	4.2 m
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Moldboard - Height	610 mm
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Moldboard - Thickness	22 mm
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Arc Radius	413 mm
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Throat Clearance	166 mm
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Cutting Edge Width	152 mm
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Cutting Edge Thickness	16 mm
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End Bit - Width	152 mm
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End Bit - Thickness	16 mm
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Blade Pull - Base GVW	11762 kg
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Blade Pull - Maximum GVW	15541 kg
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Blade Down Pressure - Base GVW	7713 kg
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Blade Down Pressure - Maximum GVW	13294 kg
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Moldboard - Blade Width	4.2 m
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BLADE RANGE

Blade Pull - Maximum GVW	7000 kg
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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 Lift Above Ground	452 mm
Maximum Depth of Cut	750 mm
Maximum Shoulder Reach Outside of Tires - Left	2090 mm
Maximum Shoulder Reach Outside of Tires - Right	2278 mm

RIPPER

Ripping Depth - Maximum	426 mm
Ripper Shank Holder Spacing	533 mm
Ripper Shank Holders	5
Penetration Force	9440 kg
Pry-Out Force	12924 kg
Machine Length Increase, Beam Raised	1031 mm

SCARIFIER

Front, V-Type, 5 or 11 Tooth - Scarifier Shank Holder Spacing	116 mm
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Front, V-Type, 5 or 11 Tooth - Scarifier Shank Holder Spacing 116 mm

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

WEIGHTS

Operating Weight - Typically Equipped	20660 kg
Gross Vehicle Weight - Maximum - Rear Axle	17268 kg
Gross Vehicle Weight - Base - Front Axle	4494 kg
Gross Vehicle Weight - Base - Rear Axle	13069 kg
Gross Vehicle Weight - Maximum - Total	25013 kg
Operating Weight - Typically Equipped - Front Axle	6004 kg
Gross Vehicle Weight - Base - Total	17563 kg

Gross Vehicle Weight - Maximum - Front Axle

7745 kg

Operating Weight - Typically Equipped - Total

20660 kg

Operating Weight - Typically Equipped - Rear Axle

14656 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

Brakes

ISO 3450

ROPS/FOPS

ISO 2474, ISO 2440

ROPS/FOPS

ISO 3471; ISO 3449

Steering

ISO 5010

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.

160 / 160 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

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

160 / 160 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 end 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
Integrated 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)
Moldboard: 4877 mm — 686 mm — 25 mm (16 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.