

Base Power (1st Gear) - Net	178 kW
Engine Model	Cat C13
Bore	130 mm
Stroke	157 mm
Speed at Rated Power	1,850 rpm
Note (3)	Net power advertised is the power available at rated speed of 1,850 rpm, measured at the flywheel when engine is equipped with fan, air cleaner, muffler and alternator.
Standard Capability	50 °C
Note (2)	Optimized VHP Plus is standard for the 14M3.
Torque Rise	41%
Maximum Altitude - Full Power	4237 m
Maximum Torque - VHP Plus	1542 N·m
Emissions	Tier 4 Final/Stage V, Tier 3/Stage IIIA equivalent or Tier 2/Stage II equivalent
Maximum Altitude - Full Power (Tier 3)	4374 m
Maximum Altitude - Full Power (Tier 2)	3672 m
Note (1)	Net power is tested per ISO 9249, SAE I1349, and EEC 80/1269 Standards

in effect at the time of manufacture.

**Standard - Fan Speed
- Minimum** 550 rpm

Note (4) Power as declared per ISO 14396. Rated rpm 1,850. VHP+ = 228 kW (306 hp)

Note (5) Cat engines equipped with a Selective Catalytic Reduction (SCR) system are required to use: Diesel Exhaust Fluid (DEF) which meets the requirements outlined in the International Organization for Standardization (ISO) standard 22241-1.

**Standard - Fan Speed
- Maximum** 1,600 rpm

Displacement 12.5 l

Number of Cylinders 6

Circle - Outer Diameter 1822 mm

Front Axle - Wheel Lean - Left/Right 17.1°

Front Axle - Total Oscillation per Side 32°

Transmission and Differential 89 l

Diesel Exhaust Fluid Tank (Tier 4 Only) 22 l

Hydraulic System 125 l

Circle Drive 7 l

Cooling System 60 l

Fuel Tank 416 l

Blade Width 4.2 m

Arc Radius 413 mm

Throat Clearance 117 mm

Blade Width - With End Bits 4290 mm

Blade Height - With Cutting Edge 631 mm

Blade Width - Without End Bits 4166 mm

Blade Height - Without Cutting Edge 585 mm

Maximum Depth of Cut 593 mm

Circle Centershift - Left 650 mm

Maximum Lift Above Ground 419 mm

Circle Centershift - Right 520 mm

Blade Tip Range - Backward 5°

Maximum Shoulder Reach Outside of Tires - Right 2004 mm

Moldboard Sideshift - Right 790 mm

Moldboard Sideshift - Left 740 mm

Maximum Shoulder Reach Outside of Tires - Left 1870 mm

Blade Tip Range - Forward 40°

Operating Weight - Typically Equipped	25968 kg
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Gross Vehicle Weight - Base* - Total	23124 kg
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Gross Vehicle Weight - Base* - Front Axle	6344 kg
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Gross Vehicle Weight - Typically Equipped - Total	25968 kg
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Gross Vehicle Weight - Typically Equipped - Rear Axle	19053 kg
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Gross Vehicle Weight - Typically Equipped - Front Axle	6915 kg
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Gross Vehicle Weight - Base* - Rear Axle	16780 kg
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Note	*Base operating weight calculated on standard machine configuration with 20.5 R25 tires, full fuel tank operator and ROPS cab.
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Air Conditioning	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2 kg (4.4 lb) of refrigerant which has a CO2 equivalent of 2.860 metric tonne (2.76 ton).
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14 STANDARD EQUIPMENT

NOTE

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

OPERATOR ENVIRONMENT

Joystick, power adjustable armrests

Air conditioner with heater

Centershift pin indicator

Coat hook

Cup holder

Display, digital speed and gear

Doors, left and right side with wiper

Gauges (analog) inside cab (includes fuel, articulation, engine coolant temp, engine rpm, and hydraulic oil temp)

Gauges, machine level

Message display

Joystick gear selection

Joystick hydraulic controls for implements, steering, transmission

Ladders, cab, left and right side

Lights, left and right side lights

Lights, night time cab, LED

Meter, hour, digital

Mirror, inside rearview, wide angle

Power port, 12V

Radio ready, entertainment

ROPS cab, sound suppressed, less than 73 dB(A) ISO 6394 (70% fan speed)

Seat, mechanical suspension, cloth

Storage compartments

Throttle control, electronic

POWER TRAIN

Air cleaner, dual stage, dry-type radial seal with service indicator through messenger and dust ejector

Air cleaner, dual stage, dry type radial seal with service indicator through messenger and dust ejector

Articulation, automatic Return-to-Center

Air-to-Air After Cooler (ATAAC)

Auto Diff Lock

Brake wear indication

Brakes, oil disc, four-wheel, hydraulic

Consistent power to ground

Monitoring system

Clutch, circle drive slip

Differential, lock/unlock*

Drain, engine oil, ecology

Demand fan, hydraulic

Engine ECO Mode

Ether starting aid

Fuel tank, ground level

Fuel-water separator

Hydraulic demand fan

Muffler, under hood (China Nonroad Stage III and Tier 3/Stage IIIA/Tier 2/Stage II equivalent)

Optimized VHP

Parking brake - multi disc, sealed, oil-cooled

Priming pump, fuel

Sediment drain, fuel tank

Three variations of the C13 engine. One meets Tier 4 Final/Stage V emission standards and is required for higher regulated countries. One meets Tier 3/Stage IIIA/China Nonroad Stage III standards, depending on emission standards of the specific country. One meets Tier 2/Stage II equivalent emission standards and is available for lesser or non-regulated countries, depending on standards of the specific country.

Transmission, 8F/6R, power shift, direct drive

ELECTRICAL

Alternator, 150 ampere, sealed

Batteries, maintenance free, HD, 1,125 CCA

Breaker panel

Electrical system, 24V*

Belt, serpentine, automatic tensioner

Lights: reversing (LED), roof-mounted roading, stop and tail (LED)

Product Link

Starter, electric

Service lights, enclosure, rear, LED

SAFETY

Alarm, back up

Ground level engine shutdown

Hammer (emergency exit)

Horn, electric

Lockout, hydraulic implement for roading

Operator Not Present Monitoring system

Paint, glare reducing - top of front frame, rear enclosure and ripper cylinders

Seat belt retractable 76 mm (3 in)

Seat belt, retractable 70 mm (3 in)

Secondary steering

Windows, laminated glass: Fixed front with intermittent wiper; Side and rear wipers (3)

14 OPTIONAL EQUIPMENT

NOTE

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

OPERATOR ENVIRONMENT

Air horn

Heated door

Mirrors high visibility

Mirrors, outside heated 24V
Mirrors, outside mounted
Seat, heated
Seat, heated/ventilated
Rearview camera
Seat belt indicator

POWER TRAIN

Transmission, autoshift
Engine, compression brake

TECHNOLOGY

Cat GRADE with Cross Slope
Stable Blade
Advanced Control Joysticks
Auto Articulation

GUARDS

Debris guard
Front axle cylinder guards
Rear fenders
Sound suppression, engine enclosure and transmission
Transmission guard
Accumulators, blade lift
Fast fill fuel, 378.5 L/min (100 gal/min)
Metallic DCM wear strips

ELECTRICAL

Light, LED, warning strobe
Lights, front headlights high
Lights, front headlights low
Mounting, for warning light
Working lights halogen
Working lights LED

SAFETY

Additional rearview camera and monitor
Machine security system key

OTHER ATTACHMENTS

Moldboard, 4.9 m (16 ft)
Heater, engine coolant, 120V
Heater, engine coolant, 240V
Hydraulic arrangements with additional hydraulic valves: Base +1, Base +3, Base +4, Base +5, Base +6
Product Link satellite, cellular
Rim, 431.8 mm x 635 mm (17 in x 25 in) MP (spare)
Snow wing, mounting frame ready
Fast fill

WORK TOOLS/G.E.T.

4.9 m (16 ft) blade with flat cutting edge 254 mm x 35 mm (10in x 1 3/8 in)

Push block, counterweight

Ripper, rear

Tooth, ripper

FLUIDS

Coolant, -51 degrees C (-60 degrees F)

