

Product Specifications For 14



Engine

Base Power (1st Gear) - Net	238 hp
Engine Model	Cat C13
Bore	5.1 in
Stroke	6.2 in
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	122 °F
Note (2)	Optimized VHP Plus is standard for the 14M3.
Torque Rise	41%
Maximum Altitude - Full Power	13900 ft
Maximum Torque - VHP Plus	1137 lb/ft
Emissions	Tier 4 Final/Stage V, Tier 3/Stage IIIA equivalent or Tier 2/Stage II equivalent
Maximum Altitude - Full Power (Tier 3)	14349 ft
Maximum Altitude - Full Power (Tier 2)	12049 ft

Note (1) Net power is tested per ISO 9249, SAE J1349, 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 763 in³

Number of Cylinders 6

Weights

**Operating Weight - Typically
Equipped** 57250 lb

**Gross Vehicle Weight - Base* -
Total** 50980 lb

**Gross Vehicle Weight - Base* -
Front Axle** 13994 lb

**Gross Vehicle Weight - Typically
Equipped - Total** 57250 lb

**Gross Vehicle Weight - Typically
Equipped - Rear Axle** 42005 lb

**Gross Vehicle Weight - Typically
Equipped - Front Axle** 15245 lb

Gross Vehicle Weight - Base* - Rear Axle 36994 lb

Note *Base operating weight calculated on standard machine configuration with 20.5 R25 tires, full fuel tank operator and ROPS cab.

Moldboard

Blade Width 14 ft

Arc Radius 16.3 in

Throat Clearance 4.6 in

Blade Width - With End Bits 169 in

Blade Height - With Cutting Edge 24.9 in

Blade Width - Without End Bits 164 in

Blade Height - Without Cutting Edge 23 in

Frame

Circle - Outer Diameter 71.7 in

Front Axle - Wheel Lean - Left/Right 17.1°

Front Axle - Total Oscillation per Side 32°

Service Refill Capacities

Transmission and Differential 23.5 gal (US)

Diesel Exhaust Fluid Tank (Tier 4 Only) 5.8 gal (US)

Hydraulic System 33 gal (US)

Circle Drive 1.8 gal (US)

Cooling System	15.9 gal (US)
----------------	---------------

Fuel Tank	109.9 gal (US)
-----------	----------------

Blade Range

Maximum Depth of Cut	23.3 in
----------------------	---------

Circle Centershift - Left	25.6 in
---------------------------	---------

Maximum Lift Above Ground	16.5 in
---------------------------	---------

Circle Centershift - Right	20.5 in
----------------------------	---------

Blade Tip Range - Backward	5°
----------------------------	----

Maximum Shoulder Reach Outside of Tires - Right	78.9 in
---	---------

Moldboard Sideshift - Right	31.1 in
-----------------------------	---------

Moldboard Sideshift - Left	29.1 in
----------------------------	---------

Maximum Shoulder Reach Outside of Tires - Left	73.6 in
--	---------

Blade Tip Range - Forward	40°
---------------------------	-----

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 2 kg (4.4 lb) of refrigerant which has a CO2 equivalent of 2.860 metric tonne (2.76 ton).
-------------------------	--

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
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)

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)