

Product Specifications For 844



Engine

Engine Model	Cat® C27
Net Power - SAE J1349:2011 - Standard Ambient	546 kW
Rated Speed	1800 r/min
Emissions	Option 1 - U.S. EPA Tier 4 Final / EU Stage V
Engine Power - ISO 14396:2002	586 kW
Gross Power - SAE J1995:2014	597 kW
Net Power - SAE J1349:2011 - High Ambient	508 kW
Emissions	Option 2 - China Nonroad Stage III emissions standards, equivalent to U.S. EPA Tier 2
Engine Power - ISO 14396: 2002	561 kW
Gross Power - SAE J1995:2014	571 kW
Net Power - SAE J1349:2011 - Standard Ambient	521 kW
Net Power - SAE J1349:2011 - High Ambient	483 kW
Bore	137.2 mm

Stroke	152.4 mm
Displacement	27.03 l
Peak Torque - Speed	3557 N·m
Torque Rise	18 %
Note	Net power advertised is the power available at the flywheel when the engine is equipped with fan at minimum speed, air intake system, exhaust system, and alternator.

Operating Specifications

Operating Weight	74883 kg
Blade Capacity Range	15.9 m³

Transmission

Transmission Type	Cat Planetary Power Shift
Converter Drive - Forward 1	7.3 km/h
Converter Drive - Forward 2	13.3 km/h
Converter Drive - Forward 3	22.9 km/h
Converter Drive - Reverse 1	7.9 km/h
Converter Drive - Reverse 2	14.7 km/h
Converter Drive - Reverse 3	24.9 km/h
Direct Drive - Forward 1	Lock-up disabled
Direct Drive - Forward 2	13.7 km/h
Direct Drive - Forward 3	24.5 km/h

Direct Drive - Reverse 1	8.7 km/h
Direct Drive - Reverse 2	15.4 km/h
Direct Drive - Reverse 3	26.4 km/h
Note	Travel speeds based on 45/65-45 L-5 46 ply tires.

Hydraulic System - Lift/Tilt

Output at 2,000 rpm and 6900 kPa (1,000 psi)	311 L/min
Cylinders, Double Acting - Lift, Bore and Stroke	133 mm × 1535 mm (5.25 in × 60.4 in)
Cylinder, Double Acting - Tilt and Tip, Bore and Stroke	210 mm × 188 mm (8.25 in × 7.4 in)
Relief Valve Setting - Bulldozer (Large Pump)	18650 kPa
Relief Valve Setting - Tilt Cylinders (Small Pump)	20150 kPa

Hydraulic System - Steering

Steering System - Circuit	Pilot, load sensing
Steering System - Pump	Piston, variable displacement
Minimum Turning Radius - Over Blade	10369 mm
Total Steering Angle	35 °
Maximum Flow	357 L/min
Relief Valve Setting	31000 kPa

Service Refill Capacities

Fuel Tank - Standard	1085 l
Cooling System	208 l

Crankcase	76 l
Transmission	110 l
Differential - Final Drives - Front	271 l
Differential - Final Drives - Rear	261 l
Hydraulic System - Implement and Hydraulic Fan	261 l
Hydraulic System - Steering and Braking	132 l

Air Conditioning System

Air Conditioning	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas. - If equipped with R134a (Global Warming Potential = 1430), the system contains 1.8 kg (3.9 lb) of refrigerant, which has a CO2 equivalent of 2.574 metric tonnes (2.837 tons).
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Axles

Front	Fixed
Rear	Trunnion
Oscillation Angle	8.5 °

Brakes

Brakes	Meets ISO 3540:2011
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Sound Performance - Tier 4 Final / Stage V

Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)
Machine Sound Power Level (ISO 6395:2008)	116 dB(A)

Operator Sound Pressure Level (ISO 6396:2008)*	72 dB(A)
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Machine Sound Power Level (ISO 6395:2008)*	114 dB(A)
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Note (1)	*Sound suppression equipped
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Note (2)	The machine sound power level was measured according to ISO 6395:2008. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.
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Note (3)	The operator sound pressure level was measured according to ISO 6396:2008. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.
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Note (4)	Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.
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Sound Performance - Tier 2

Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)
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Machine Sound Power Level (ISO 6395:2008)	116 dB(A)
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Operator Sound Pressure Level (ISO 6396:2008)*	72 dB(A)
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Machine Sound Power Level (ISO 6395:2008)*	114 dB(A)
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Note (1)	*Sound suppression equipped
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Note (2)	The machine sound power level was measured according to ISO 6395:2008. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.
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Note (3)

The operator sound pressure level was measured according to ISO 6396:2008. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.

Note (4)

Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.

Cab

ROPS/FOPS

ISO 3471:2008 and ISO 3449:2005 Level II Standards

Dimensions (Approximate)

Height - Top of ROPS

5240 mm

Height - Top of Exhaust Pipe

5049 mm

Height - Top of Hood

3862 mm

Ground Clearance

596 mm

Centerline of Front Axle to Hitch

2300 mm

Centerline of Rear Axle to Edge of Bumper

3795 mm

Wheel Base

4600 mm

Length - With Blade on Ground

11120 mm

844 Standard Equipment

NOTE

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

ELECTRICAL AND LIGHTING

Alternator, 150 amp

Batteries, maintenance free (4 - 1,400 CCA)

Battery disconnect and jump start receptacle, bumper

Deutsch terminal connectors

Electrical system, 24V

Electronic transmission control

Lighting system, halogen (front and rear) lighting, access stairway, engine compartment

Starter lockout in bumper

Starting and charging system, 24V

Transmission lockout in bumper

POWERTRAIN

Brakes, oil cooled, multi-disc, service/secondary

Driveline parking brake

Engine Cat C27

Fuel priming pump (electric)

Ground level engine shutdown switch

Precleaner, engine air intake (above hood)

Radiator, Aluminum Modular (AMR)

Starting aid, (ether) automatic

Throttle Lock electronic

Torque Converter, Impeller clutch with lock-up clutch (ICTC) and rimpull control system

Transmission, 534 mm (21 in) planetary power shift (electronic) (3F/3R)

OPERATOR ENVIRONMENT

Advisor display, displays real time operating information, performs calibrations and customizes operator setting

Air conditioner and heater with automatic temperature control

Air precleaner, powered

Cab, sound-suppressed pressurized, separate external rollover protective structure/falling objects protective structure (ROPS/FOPS)

Cigar lighter and ashtray

Coat hook

Converter (12V, 10/15 amp) and power port

Electro-hydraulic blade controls (joystick)

Heater and defroster

Horn, electric

Instrumentation, gauges: - engine coolant temperature, fuel level, hydraulic oil temperature, powertrain oil temperature, tachometer

Instrumentation, warning indicators: - Action alert system, three category - Automatic transmission mode enable status - Brake malfunction - Bucket float status - Delayed engine shutdown status - Engine idle shutdown status - Engine malfunction - Fuel economy mode enable status - Hydraulic lockout - Lockup clutch enable status - Low fuel level - Parking brake status - Rimpull control enable status - Seatbelt warning - Secondary steering (if equipped) - Throttle lock status - Transmission gear

Light, dome (cab)

Lunchbox and beverage holders

Seat, premium with heated and actively cooled leather, adjustable lumbar support, air adjustable bolsters on the seat and backrest, seat cushion tilt adjustment, and adjustable-length seat cushion

Radio, AM/FM with Bluetooth®, USB Port, 3.5 mm AUX input

Tinted glass

Wet-arm wipers/washers (front, rear and corner) intermittent front wiper

SAFETY

Alarm, back-up
Camera, rear vision
Emergency platform exit
Implement lockout switch
Mirrors, rearview (externally mounted)
Seat belt, retractable, 76 mm (3 in) wide
Stairway, left and right rear access
Steering and transmission lock lever, cab
Steering, secondary
Seat, trainer with lap belt, 76 mm (3in) wide
Toe kicks

SERVICE

Axle ecology drains
Case drain filters
Coupling, Caterpillar O-ring face seals
Engine, crankcase, 500 hour interval with CH4
Front walkway around cab
Guards, crankcase and powertrain
Grouped/labeled lube points
Battery disconnect and jump start receptacle, bumper
Hitch, drawbar with pin
Hoses, Cat XT™
Oil sampling valves
Sight guages for steering, implement and transmission oil
Vital Information Management System (VIMS) 3G with graphical information display: external data port, customizable operator profiles

COOLING

Standard ambient package (recommended for site conditions that do not exceed 43°C (110°F))

COLD WEATHER

Heated seat

EFFICIENCY

Economy mode with on demand throttle
Positive flow control hydraulic system
Impeller Clutch Torque Converter (ICTC) with lock-up clutch
Steering, load sensing
Soft detent controls
Engine idle management features: - Auto idle kickdown - Delayed engine shutdown - Engine idle shutdown

TRAMMING

Front fenders

844 Optional Equipment

NOTE

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

ELECTRICAL AND LIGHTING

Lights, LED

Product Link (Cellular)

Product Link (Satellite)

POWERTRAIN

Engine brake

No-spin rear axle

No-spin rear axle and oil cooler

Precleaner, raised

OPERATOR ENVIRONMENT

Radio, Sirius XM/AM/FM radio with Bluetooth technology, USB port, 3.5 mm AUX input

Rubber mounted cab glass

Window sun screen

SAFETY

LED warning strobe

SERVICE

Product Link™

BLADES

HD Semi-U - 16.1 m³ (21.1 yd³)

Paint, black blade rear

COOLING

High ambient cooling - software (recommended for site conditions that do not exceed 49°C [121°F])

COLD WEATHER

50° C (-58° F) antifreeze

120V or 240V coolant heating elements (recommended in conditions from -18°C to -30°C [0°F to -22°F])

-40°C (-40°F) Hydraulic Oil, Arctic

TRAMMING

Fender extensions, roading, front and rear