

PRODUCT SPECIFICATIONS FOR 854K



Engine Model	Cat® C32 ACERT™
Gross Power	676 kW
Emissions (U.S. EPA Tier 4 Final): Gross Power - SAE J1995	671 kW
Emissions (U.S. EPA Tier 4 Final): Net Power ISO - 9249	607 kW
Emissions (Tier 2 Equivalent): Gross Power - SAE J1995	676 kW
Emissions (Tier 2 Equivalent): Net Power ISO - 9249	607 kW
Rated Speed	1750 r/min
Bore	145 mm
Stroke	162 mm
Displacement	32.1 l
Peak Torque - 1,200 rpm	4242 N·m
Torque Rise	30 %
Note (1)	Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
Note (2)	Net torque rise meets SAE J139.
Note (3)	No engine derating required up to 3050 m (10,000 ft) altitude.

Operating Weight	101720 kg
Transmission Type	Cat Planetary Power Shift
Converter Drive - Forward 1	7.1 km/h
Converter Drive - Forward 2	12.4 km/h
Converter Drive - Forward 3	21.2 km/h
Converter Drive - Reverse 1	7.7 km/h
Converter Drive - Reverse 2	13.5 km/h
Converter Drive - Reverse 3	23.5 km/h
Direct Drive - Forward 1	Lock-up disabled
Direct Drive - Forward 2	13 km/h
Direct Drive - Forward 3	22.8 km/h
Direct Drive - Reverse 1	8 km/h
Direct Drive - Reverse 2	14.3 km/h
Direct Drive - Reverse 3	25.1 km/h
Note	Travel speeds based on 45/65-45 L-5 46 ply tires.
Output at 1,850 rpm and 6900 kPa (1,000 psi)	610 l/min
Cylinders, Double Acting - Lift, Bore and Stroke	177 mm × 1760 mm (0.58 ft × 5.8 ft)

Cylinder, Double Acting - Tilt and Tip, Bore and Stroke	267 mm × 286 mm (0.88 ft × 0.94 ft)
Relief Valve Setting - Lift (Large Pump)	22675 kPa
Relief Valve Setting - Tilt (Small Pump)	24560 kPa
Fuel Tank - Standard	1562 l
Cooling System	200 l
Crankcase	120 l
Transmission	169 l
Differential - Final Drives - Front	369 l
Differential - Final Drives - Rear	342 l
Hydraulic System - Implement and Brakes - Tank Only	326 l
Hydraulic System - Steering and Engine Cooling Fan - Tank Only	290 l
Front	Fixed
Rear	Oscillating at ±10 degrees
Maximum Single-Wheel Rise and Fall	573 mm
Brakes	Meets ISO 3540:2011
Blade Capacities	25 to 45 m ³ (33 to 58 yd ³)

Air Conditioning	Standard air conditioning system contains environmentally friendly R134a refrigerant
Cab - ROPS/FOPS (1)	Cat cab with separate ROPS/FOPS is standard in North America, Europe and Japan.
Cab - ROPS/FOPS (2)	SAE J1040 MAY94, ISO 3471:2008, ISO 3471:2005
ROPS	ROPS meets SAE J1040 MAY94, ISO 3471:2008 and ISO 3471:1994 criteria.
FOPS	FOPS meets SAE J231 JAN81 and ISO 3449:1992 Level II criteria.
Sound Performance (1)	The dynamic operator sound pressure level is 71 dB(A) when ISO 6396:2008 is used to measure the value for an enclosed cab.
Sound Performance (2)	The exterior sound pressure level for the standard machine measured at a distance of 15 m (49.2 ft) is 87 dB(A).
Sound Performance (3)	Hearing protection may be needed when operating with open operator station & cab for extended periods or in noisy environment.
Sound Performance (4)	The operator sound exposure Leq measured according to work cycle procedures specified in ANSI/SAE J1166 FEB08 is 71 dB(A).
Minimum Turning Radius	9550 mm
Total Steering Angle	86 °
Hydraulic Output at 1,850 rpm and 6900 kPa (1,000 psi)	470 l/min
Relief Valve Setting	34500 kPa
Serial Number Prefix	KK6

Serial Number Prefix	RM6
Height - Top of ROPS	5590 mm
Height - Top of Exhaust Pipe	5234 mm
Height - Top of Hood	3984 mm
Ground Clearance	691 mm
Centerline of Front Axle to Hitch	2945 mm
Centerline of Rear Axle to Edge of Bumper	4195 mm
Wheel Base	5890 mm
Length - With Blade on Ground	13405 mm

854K STANDARD EQUIPMENT

NOTE

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

ELECTRICAL

Alarm, back-up

Alternator (150-amp)

Batteries, low maintenance

Deutsch & Amp Seal terminal connectors

ECM diagnostic connector

Ground level electrical disconnect

Ground level starting receptacle for emergency start

Lighting system, halogen (front and rear)

Lighting, access stairway

Starter, electric (heavy duty)

Starting and charging system (24-volt)

OPERATOR ENVIRONMENT

Advisor display

Air conditioner and heater with automatic temperature control

Cab, sound suppressed, pressurized, rollover protective structure (ROPS/FOPS) Radio ready for (entertainment) includes antenna, speakers, and 1 × 12V converters (24-volt, 10 amp) for use with laptop/cell phone

Cigar lighter and ashtray

Coat hook

Electro-hydraulic tilt and lift control system locks

Heater and defroster

Horn, electric

Implement and steering lockouts

VIMS 3G monitoring system:

- Action alert system, three category
- Instrumentation, gauges:
 - Engine Coolant Temperature
 - Fuel Level
 - Hydraulic Oil Temperature
 - Tachometer
 - Transmission Gear Indicator
 - Transmission Oil Temperature

Light, dome (cab)

Lunchbox and beverage holders

Mirrors, rearview (externally mounted)

Seat belt, retractable, 76 mm (3 in) wide operator and trainer seats

Seat, Cat Comfort (cloth) air suspension

STIC control system

Tinted glass

Wet-arm wipers/washer (front, rear, and corners), intermittent front wipers

POWER TRAIN

Air-to-Air After cooler (ATAAC)

Auto Idle Kickdown

Axle oil coolers (front and rear)

Brakes, fully hydraulic, enclosed, wet multiple disc service brakes and dry parking/secondary brake

Case drain filters

Delayed Engine Shutdown

Demand fan

Electric fuel priming pump

Engine, Cat C32 ACERT

Ground level engine shutdown

Ground level fast fill fuel

Ground level transmission lockout

Ground level starter lockout

Idle Engine Shutdown

Precleaner, engine air intake

Next Generation Modular Radiator (NGMR)

Starting aid (ether), automatic

Throttle lock

Transmission, 533 mm (21 in) planetary, powershift with 3F/3R, electronic control

Venturi Exhaust Stacks

OTHER STANDARD EQUIPMENT

Autolube

Automatic bucket lift/tilt kickouts, electronically adjustable from cab

Bumper service center

Couplings, Cat O-ring face seals

Doors, service access (locking)

Emergency platform egress

Fenders, steel (front and rear)
Grouped hydraulic pressure ports
Guards, power train and crankcase
Hitch, drawbar with pin
Hoses, Cat XT™ and XT-ES
Hydraulic oil cooler
Impeller clutch
Implement and steering ecology drains
Mufflers, under hood
Oil sampling valves
Piston pump case drain filters
Electro-hydraulic blade controls
Product Link™
Service center with ground level electrical and fluids service center
Sight gauges:
– Coolant level
– Implement oil level
– Steering oil level
– Transmission oil level
Starter lockout, bumper
Stairway, left and right rear access
Steering, load sensing
Toe kicks
Transmission lockout, bumper
Vandalism protection caplocks
Windshield cleaning platforms
Venturi Stack

TIRES, RIMS, AND WHEELS

A tire must be selected from the mandatory attachments section. Base machine price includes a tire allowance.

ANTIFREEZE

Premixed 50 percent concentration of extended life coolant with freeze protection to -34° C (-29° F)

854K OPTIONAL EQUIPMENT

NOTE

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

BLADES

Semi-U – 25.4 m³ (33.1 yd³)

HD Semi-U – 25.4 m³ (33.1 yd³)

Coal – 44.7 m³ (58.2 yd³)

ELECTRICAL

10A converter

HID lights

Object Detection

Rear vision camera

LED strobe warning beacons

OPERATOR ENVIRONMENT

AM/FM/CD/MP3 radio

Cab precleaner

Sirius/USB/Bluetooth Radio

Sun Screen

STARTING AIDS

Engine coolant 120V heater

Engine coolant 240V heater

MACHINE CONTROL AND GUIDANCE

CAES attachment ready option

MISCELLANEOUS ATTACHMENTS

Arctic Antifreeze for protection to -50° C (-58° F)

Diagnostic lines

Roading fenders

