

PRODUCT SPECIFICATIONS FOR 836K



ENGINE

Gross Power	419 kW
Net Power	370 kW
Engine Model	C18 Cat®
Bore	145 mm
Stroke	183 mm
Displacement	18.1 l
Low Idle Speed	750 r/min
Gross - SAE J1349	419 kW
Rated Power (Net ISO 14396)	412 kW
Net Power - SAE J1349 - Converter Drive - Torque Rise	52 %
Net Power - SAE J1349 - Converter Drive - Gross Power	370 kW
Maximum Altitude - Without Derating	2286 m
Net Power - SAE J1349 - Direct Drive - Gross Power	370 kW
High Idle Speed	2120 r/min
Net Power - SAE J1349 - Direct Drive - Torque Rise	52 %
Rated Power (Lab)	414 kW

Maximum Gross Torque - 1,300 rpm 3085 N·m

Emissions Tier 4 Final/Stage IV/Korea Tier 4 Final or Tier 3/Stage IIIA equivalent

TRANSMISSION

Travel Speed - Reverse - Converter 2nd 10.4 km/h

Travel Speed - Forward - Lockup 2nd 11.7 km/h

Travel Speed - Reverse - Lockup 2nd 12.3 km/h

Travel Speed - Forward - Lockup 1st 6.5 km/h

Transmission Type Cat Planetary Powershift

Travel Speed - Forward - Converter 1st 6.2 km/h

Travel Speed - Reverse - Converter 1st 6.5 km/h

Travel Speed - Forward - Converter 2nd 10.9 km/h

Travel Speed - Reverse - Lockup 1st 6.9 km/h

HYDRAULIC SYSTEM

Steering System Double Acting – End Mounted

Stroke (1) 740 mm

Bore (1) 127 mm

Vehicle Articulation Angle 86°

Bore (2) 137.9 mm

Maximum Supply Pressure 32000 kPa

Stroke (2)	1021 mm
Main Relief Pressure	24100 kPa
Lift System	Double Acting Cylinder
Pump Flow at 2,006 rpm	250 l/min
Hydraulic System	Flow Sharing Implement

AXLES

Front	Planetary – Fixed
Rear	Planetary – Oscillating
Oscillation Angle	13°

BRAKING SYSTEM

Parking Brake	Spring Applied, Hydraulic Released
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BRAKES

Control System	Full Hydraulic Split Circuit
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SERVICE REFILL CAPACITIES

Fuel Tank	793 l
Cooling System	107 l
Crankcase	60 l
Transmission	120 l
Diesel Engine Fluid Tank (Tier 4 Final/Stage IV/Korea Tier 4 Final)	32.8 l
Differential - Final Drives - Rear	190 l

Differential - Final Drives - Front

186 l

Hydraulic System - Tank Only

240 l

WEIGHTS

Operating Weight

55927 kg

CAB

Interior Sound Level - Standard

72 dB(A)

Exterior Sound Level - Suppression

109 dB(A)

Interior Sound Level - Suppression

71 dB(A)

Exterior Sound Level - Standard

111 dB(A)

OPERATING SPECIFICATIONS

Maximum Operating Weight (Tier 4 Final/Stage IV/Korea Tier 4 Final) - Multiple Blade and Wheel Offerings

55927 kg

Maximum Operating Weight (Tier 3/Stage IIIA equivalent) - Multiple Blade and Wheel Offerings

55617 kg

Operating Weight - With Full Tank Capacities and U-Blade (Tier 3/Stage IIIA Equivalent)

55617 kg

Operating Weight - With Full Tank Capacities and U-Blade (Tier 4 Final/Stage IV/Korea Tier 4 Final)

55927 kg

DIMENSIONS (APPROXIMATE)

Height - Top of Cab with A/C

4655 mm

Height - Top of Exhaust Pipe

4608 mm

Height - Top of Hood

3421 mm

Ground Clearance - Bumper

1029 mm

Centerline of Rear Axle to Edge of Counterweight	3187 mm
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Hitch to Centerline of Front Axle	2275 mm
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Wheel Base	4550 mm
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Width - Over Wheels	4280 mm
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Height - ROPS/Canopy	4284 mm
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Height - Top of Cab with Strobe	4845 mm
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Length - With Blade on Ground - Straight Blade	10182 mm
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Turning Radius - Inside of Wheels	3635 mm
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Ground Clearance	632 mm
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HYDRAULIC SYSTEM - STEERING

Total Steering Angle	86 degrees
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Steering Pressure Limited	24100 kPa
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Steering System - Circuit	Steering Double Acting – End Mounted
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Steering System - Pump	Piston – Variable Displacement
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Maximum Flow at × rpm	52 L/min @ 2,006 rpm
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WHEELS AND TIPS

Diameter - With Tips	2125 mm
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Drum Diameter	1770 mm
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Drum Width	1400 mm
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Tips per Wheel	40
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836K STANDARD EQUIPMENT

NOTE

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

POWER TRAIN

Advanced Productivity Electronic Control Shifting (APECS)

Air to air aftercooler

Brakes, fully hydraulic, enclosed, wet multiple disc brakes

Cat Clean Emission Module, insulated (Tier 4 Final/Stage IV/Korea Tier 4 Final)

Electro hydraulic parking brake

Engine, Cat C18: – Tier 4 Final/Stage IV/Korea Tier 4 Final – Tier 3/Stage IIIA equivalent

Fuel priming pump, electric

Fuel to air cooler

Ground level engine shutoff

Guard (3 piece) transmission

Heat shield, turbo and exhaust manifold

Hydraulically driven demand fan

Integrated braking

Radiator, Aluminum Modular Radiator (AMR)

Separated cooling system

Starting aid (ether) automatic

Throttle lock

Torque converter with lockup clutch (LUC)

Turbine precleaner, engine air intake

Transmission, planetary, with 2F/2R speed range control

Underhood ventilation system

ELECTRICAL

Alarm, back-up

Alternator, 150 amp

Batteries, maintenance-free (4-1,000 CCA)

Converter, 10-15 amp, 24V to 12V

Lighting system, halogen (front and rear)

Lighting, access stairway

Starter, electric (heavy duty)

Starter lockout (ground level)

Starting receptacle for emergency start

Transmission lockout (ground level)

OPERATOR ENVIRONMENT

Air conditioner

Cab, sound-suppressed and pressurized

Internal four-post rollover protective structure (ROPS/FOPS)

Radio ready for (entertainment) includes antenna, speakers and converter (12V, 10-15 amp) 12V power port for mobile phone or laptop connection

Camera, rear vision

Coat and hard hat hooks

Flip-up armrest

Heater and defroster

Horn, electric

Hydraulic controls (floor mounted)

Implement hydraulic lockout

Laminated glass

Light, (dome) cab

Lunchbox and beverage holders

Instrumentation, Gauges: – DEF fluid level (Tier 4 Final/Stage IV) – Hydraulic oil temperature –

Speedometer/tachometer – Torque converter temperature

Instrumentation, Warning Indicators: – Action alert system, three category – Axle/brake oil temp, front –

Brake oil pressure – Electrical system, low voltage – Engine failure malfunction alert and action lamp

Mirrors, rearview (externally mounted)

Parking brake status

Radio, CB (ready)

Seat, Cat Comfort, (cloth) air suspension

Seat belt, retractable, 76 mm (3") wide

STIC Control System with steering lock

Sun visor, front

Tinted glass

Transmission gear (indicator)

Vital Information Management System (VIMS) with graphical information display: external data port, customizable operator profiles

Wet-arm wipers/washers (front and rear)

Intermittent wipers (front and rear)

WHEELS

Wheels, paddle, plus, combination, and diamond wheel configurations

GUARDS

Guards, axle (front and rear)

Guards, cab window

Guards, crankcase and power train, hydraulically powered

Guards, rear fan and grill

BLADES

Bulldozer arrangement is included in the standard equipment. Bulldozer blades are optional.

FLUIDS

Antifreeze, premixed 50% concentration of extended life coolant with freeze protection to -34° C (-29° F)

OTHER STANDARD EQUIPMENT

Auto Blade Positioner (ABP)
Demand fan/swing out (hydraulic reversible)
Doors, service access locking
Ecology drains for engine, radiator, hydraulic tank
Electronic clutch pressure control and remote mounted pressure taps
Emergency platform egress
Engine, crankcase, 250 hour interval with CJ-4 oil
Fuel tank, 793 L (210 gal)
Hitch, drawbar with pin
Hoses, Cat XT™
Hydraulic oil cooler
Hydraulic, steering and brake filtration/screening system
Oil sampling valves
Product Link
Stairways, fixed-L/R (rear access)
Steering, load sensing
Vandalism protection caplocks
Venturi stack

836K OPTIONAL EQUIPMENT

NOTE

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

VARIOUS BLADES:

Straight blade
U-blade
Semi U-blade

VARIOUS TIP AND WHEEL ARRANGEMENTS:

Paddle
Plus
Diamond