

PRODUCT SPECIFICATIONS FOR 825K

US Metric

Engine Model	C15 Cat®
Net Power	302 kW
Rated Power (Net ISO 9249)	302 kW
Maximum Net Torque - 1,300 rpm	2005 N·m
Maximum Altitude - Without Derating (Tier 4 Final/Stage IV)	2834 m
Net Power - Converter Drive - Gross Power	324 kW
Stroke	171.4 mm
Net Power - Converter Drive - Torque Rise	8,5%
Gross Power	324 kW
High Idle Speed	2300 r/min
Rated Power (Net SAE J1349)	302 kW
Emissions	Meets U.S. EPA Tier 4 Final/EU Stage IV emission standards or meets U.S. EPA Tier 3/EU Stage IIIA equivalent emission standards
Low Idle Speed	800 r/min
Net Power - Direct Drive - Torque Rise	33%
Maximum Altitude - Without	2773 m

Derating (Tier 3 Final/Stage IIIA Equivalent)

Net Power - Direct Drive - Gross Power 307 kW

Bore 137.2 mm

Displacement 15.2 l

Operating Weight 35528 kg

Operating Weight - Tier 3 Final/Stage IIIA Equivalent 35081 kg

Operating Weight - Tier 4 Final/Stage IV 35528 kg

Travel Speeds - Reverse - First 6.2 km/h

Travel Speeds - Forward - First 5.5 km/h

Travel Speeds - Reverse - Third 19.7 km/h

Travel Speeds - Reverse - Second 11.1 km/h

Travel Speeds - Forward - Third 17.2 km/h

Transmission Type Planetengetriebe – Lastschaltgetriebe – ECPC (Electronic Clutch Pressure Control, Elektronische Kupplungsdrucksteuerung)

Travel Speeds - Forward - Second 9.7 km/h

Machine Sound Level (ISO 6395)	113 dB(A)
Operator Sound Level - ISO 6396	73 dB(A)
Ground Clearance	492 mm
Length - With Blade on Ground	8561 mm
Height - Top of Exhaust Pipe	4290 mm
Hitch to Centerline of Front Axle	1850 mm
Turning Radius - Inside of Push Arms	2627 mm
Centerline of Rear Axle to Edge of Counterweight	2830 mm
Wheel Base	3700 mm
Ground Clearance - Bumper	810 mm
Height - Top of Beacon	4381 mm
Height - ROPS/Canopy	4059 mm
Height - Top of Hood	3162 mm
Width - Over Wheels	3650 mm
Hydraulic Tank Only	134 l
Differential - Final Drives - Rear	110 l
Fuel Tank	782 l

Cooling System	116 l
Differential - Final Drives - Front	100 l
Transmission	66 l
Diesel Exhaust Fluid Tank (Tier 4 Final/Stage IV)	32 l
Engine Crankcase	34 l
Oscillation Angle	±8°
Rear	Planetary – Oscillating
Front	Planetary – Fixed
Maximum Supply Pressure	24100 kPa
Main Relief Pressure	24100 kPa
Cylinders, Double Acting - Tilt, Bore and Stroke	95.25 mm × 216 mm (3.75 in × 8.5 in)
Pump Flow at 1,800 rpm	117 l/min
Cylinders, Double Acting - Lift, Bore and Stroke	120 mm × 1070 mm (4.7 in × 42.1 in)
Total Tilt Adjustment	890 mm
Maximum Lift Above Ground	958 mm
Moldboard - Length	4390 mm
Blade Tilt Angle - Left - Mechanical	4,1°

Width - Over End Bits	4628 mm
Blade Tilt Angle - Left - Hydraulic	5,4°
Blade Tip Angle - Total	14,8°
Maximum Depth of Cut	602 mm
Height - Including Cutting Edge	1032 mm
Blade Tip Angle - Forward	7,3°
Blade Tilt Angle - Right - Mechanical	5,1°
Blade Tip Angle - Back	7,5°
Blade Tilt Angle - Right - Hydraulic	6,3°
Blade Tilt Angle - Left Full	10,1°
Blade Tilt Angle - Right Full	10,8°
Maximum System Flow	170 L/min @ 1,800 rpm (44.9 gal/min @ 1,800 rpm)
Stroke	576 mm
Steering System - Circuit	Double Acting – End Mounted
Vehicle Articulation Angle	86 degrees
Bore	114.3 mm
Steering Pressure Limited	24000 kPa
Steering System - Pump	Piston – Variable Displacement

Weight	7333 kg
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Drum Width	1125 mm
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Drum Diameter	1299 mm
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Tips per Wheel	65
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Width - Over Drums	3650 mm
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Outside Diameter	1672 mm
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Operator Sound Level - ISO 6396	72 dB(A)
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Machine Sound Level (ISO 6395)	110 dB(A)
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Parking Brake	Drum and Shoe, Spring Applied, Hydraulic Released
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825K STANDARD EQUIPMENT

NOTE

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

POWER TRAIN

Air to air aftercooler

Autoshift

Brakes, full hydraulic, enclosed, wet multiple disc service brakes

Cat clean emission module (Tier 4 Final/Stage IV)

Electro-hydraulic parking brake

Electronic Clutch Pressure Control (ECPC)

Engine, Cat C15: – Tier 4 Final/Stage IV – Tier 3/Stage IIIA equivalent

Fuel priming pump (electric)

Fuel to air cooler

Ground level engine shutoff

Hydraulically driven demand fan

Integrated braking system

Muffler (under hood) (Tier 3/Stage IIIA equivalent)

Radiator, Aluminum Modular (AMR)

Separated cooling system

Single Clutch Speed Shifting (SCSS)

Starting aid (ether) automatic

Throttle lock

Torque converter with Lock Up Clutch (LUC)

Transmission, planetary, with 3F/3R speed range control

ELECTRICAL

Alarm, back-up
Alternator, 150 amp
Batteries, maintenance-free (4 – 1,000 CCA)
Electrical system, 24V
Ground level lockable master disconnect switch
Light, warning unswitched (LED strobe)
Lighting, access stairway
Lighting, under hood
Lighting system, halogen (front and rear)
Lights, directional (rear)
Starter, electric (heavy duty)
Starting receptacle for emergency start

OPERATOR ENVIRONMENT

12V power port for mobile phone or laptop connection
AccuGrade™ mapping (ready)
Air conditioner
Cab, sound-suppressed pressurized
Cab door, sliding window (LH)
Compaction control (ready)
Coat and hard hat hooks
Electro-hydraulic tilt and lift controls
Finger tip shifting controls
Flip-up armrest
Heater and defroster
Horn, electric
Implement hydraulic lockout

Instrumentation, gauges: – DEF fluid level (Tier 4 Final/Stage IV) – Engine coolant temperature – Fuel level – Hydraulic oil temperature – Speedometer/tachometer – Torque converter temperature
Instrumentation, warning indicators: – Action alert system, three categories – Brake oil pressure – Electrical system, low voltage – Engine failure malfunction alert and action lamp – Parking brake status
Internal four-post rollover protective structure (ROPS/FOPS)
Laminated glass
Light, (dome) cab
Lunch box and beverage holders
Mirror, internal (panoramic)
Mirrors, heated ready
Mirrors, rearview (externally mounted)
Radio ready for entertainment: – Antenna – Speakers – Converter (12V, 10-15 amp)
Seat, Cat Comfort (cloth) air suspension
Seat belt with minder, retractable, 76 mm (3 in) wide
STIC control system with lockout
Sun visor, front
Tinted glass
Transmission gear (indicator)
Vital Information Management System (VIMS): – Graphical information display – External data port –

Customizable operator profiles
Wet-arm wipers/washers (front and rear)
Intermittent wipers (front and rear)

TIRES, RIMS AND WHEELS

Wheels, tamping tips

GUARDS

Guard, driveshaft
Guards, crankcase and power train

BLADES

Bulldozer straight blade, hydraulics, and linkage are included in the base machine

FLUIDS

Antifreeze, premixed 50% concentration extended life (-34° C/-29° F)

OTHER STANDARD EQUIPMENT

Cleaner bars with teeth
Doors, service access (locking)
Ecology drains for engine, radiator, transmission, hydraulic tank
Emergency platform egress
Engine, crankcase, 500 hour interval with CJ-4 oil
Engine idle management features: - Auto idle kickdown - Delayed engine shutdown - Engine idle shutdown
Fast fuel system
Fire suppression ready
Fuel tank, Fast Fill, 782 L (207 gal)
Hitch, drawbar with pin
Hoses, Cat
Hydraulic, engine, and transmission oil coolers
Oil change system, high speed
Oil sampling valves
Product Link
Stairway, left and right rear access
Steering, load sensing
Toe kicks
Total hydraulic filtration system
Vandalism protection caplocks
Venturi stack
Fold down exhaust stack for shipping

825K OPTIONAL EQUIPMENT

NOTE

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

OPERATOR ENVIRONMENT

Camera, rear vision

Radio, AM/FM/AUX/USB/BLUETOOTH

Radio, CB (ready)

TECHNOLOGY PRODUCTS

Compaction control, basic

FLUIDS

Antifreeze, -50° C (-58° F)

STARTING AIDS

Heater, engine coolant, 120V

Heater, engine coolant, 240V

MISCELLANEOUS

Film (ANSI) (Tier 4 Final/Stage IV)

EU certification (Tier 4 Final/Stage IV)

Plate - year of manufacture (Tier 3/Stage III Equivalent)

