PRODUCT SPECIFICATIONS FOR 825K



ENGINE

| 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 Derating (Tier 3 Final/Stage IIIA Equivalent) | 2773 m |

| Net Power - Direct Drive - Gross Power | 307 kW |
|---|----------|
| Bore | 137.2 mm |
| Displacement | 15.2 |

OPERATING SPECIFICATIONS

| Operating Weight | 35528 kg |
|---|----------|
| Operating Weight - Tier 3 Final/Stage IIIA Equivalent | 35081 kg |
| Operating Weight - Tier 4 Final/Stage IV | 35528 kg |

| TRANSMISSION | |
|-------------------------------------|--|
| 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 |

CAB - STANDARD

| Machine Sound Level (ISO 6395) | 113 dB(A) |
|--------------------------------|-----------|
| | |

| Operator Sound | llevel. | . ISO 639 | 16 |
|-----------------------|-----------|-----------|----|
| Operator Sound | ı Fesel . | . 130 638 | |

73 dB(A)

DIMENSIONS (APPROXIMATE)

| 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 | |
| SERVICE REFILL CAPACITIES | | |

| Hydraulic Tank Only | 134 I |
|-------------------------------------|-------|
| Differential - Final Drives - Rear | 110 I |
| Fuel Tank | 782 I |
| Cooling System | 116 |
| Differential - Final Drives - Front | 100 I |

| Transmission | 66 I |
|---|------|
| Diesel Exhaust Fluid Tank (Tier 4 Final/Stage IV) | 32 |
| Engine Crankcase | 34 I |
| 4 V/I = 6 | |

AXLES

| Oscillation Angle | ±8° |
|-------------------|-------------------------|
| Rear | Planetary – Oscillating |
| Front | Planetary – Fixed |

HYDRAULIC SYSTEM

| 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) |

BLADES

| 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° |

HYDRAULIC SYSTEM - STEERING

| 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 |

WHEELS

| Weight | 7333 kg |
|--------|---------|
| | |

Drum Width 1125 mm

| Drum Diameter | 1299 mm |
|--------------------|---------|
| Tips per Wheel | 65 |
| Width - Over Drums | 3650 mm |
| Outside Diameter | 1672 mm |

CAB - SUPPRESSION

| Operator Sound Level - ISO 6396 | 72 dB(A) |
|---------------------------------|-----------|
| Machine Sound Level (ISO 6395) | 110 dB(A) |

BRAKING SYSTEM

Parking Brake Drum and Shoe, Spring Applied, Hydraulic Released

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)

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)