

# PRODUCT SPECIFICATIONS FOR 924K



<b>Maximum Gross Power</b>	105 kW
<b>Engine Model</b>	Cat® C7.1
<b>Displacement (Performance Power Mode: Speed Range 1-4)</b>	7.01 l
<b>Maximum Gross Torque - ISO 14396 (Standard Power Mode: Range 1-3*)</b>	725 N·m
<b>Maximum Net Torque - SAE J1349 (Performance Power Mode: Range 1-4)</b>	704 N·m
<b>Emissions</b>	Engine meets U.S. EPA Tier 3/EU Stage IIIA/Brazil MAR-1 equivalent emission standards.
<b>Maximum Gross Power - 1,800 rpm - ISO 14396 (Performance Power Mode: Range 1-4)</b>	105 kW
<b>Note</b>	*Range 4 power is boosted to be the same as Performance Mode.
<b>Maximum Net Torque - SAE J1349 (Standard Power Mode: Range 1-3*)</b>	704 N·m
<b>Maximum Gross Power - 1,600 rpm - ISO 14396 (Standard Power Mode: Range 1-3*)</b>	101 kW
<b>Displacement (Standard Power Mode: Speed Range 1-3*)</b>	7.01 l
<b>Maximum Net Torque - ISO 9249 (1977)/EEC 80/1269 (Performance Power Mode: Range 1-4)</b>	711 N·m
<b>Maximum Gross Torque - ISO 14396</b>	725 N·m

**(Performance Power Mode: Range 1-4)****Note (1)**

Net power shown is the power available at the flywheel when the engine is equipped with alternator and air cleaner.

**Maximum Net Torque - ISO 9249 (1977)/EEC 80/1269 (Standard Power Mode: Range 1-3\*)**

711 N·m

**Maximum Gross Power - 1,600 rpm - ISO 14396 (metric) (Standard Power Mode: Range 1-3\*)**

137 hp

**Maximum Gross Power - 1,800 rpm - ISO 14396 (metric) (Performance Power Mode: Range 1-4)**

143 hp

**Net Power - 1,600 rpm - SAE J1349 (Standard Power Mode: Range 1-3\*)**

98 kW

**Net Power - 1,800 rpm - ISO 9249 (metric) (Performance Power Mode: Range 1-4)**

140 hp

**Net Power - 1,800 rpm - SAE J1349 (Performance Power Mode: Range 1-4)**

102 kW

**Net Power - 1,600 rpm - ISO 9249 (metric) (Standard Power Mode: Range 1-3\*)**

135 hp

**Bucket Capacities**1.7-5 m<sup>3</sup> (2.2-6.5 yd<sup>3</sup>)**Bucket Capacities - Light Material**3.1-5 m<sup>3</sup> (4.0-6.5 yd<sup>3</sup>)**Bucket Capacities - General Purpose**1.7-2.5 m<sup>3</sup> (2.2-3.2 yd<sup>3</sup>)**Operating Weight**

11795 kg

**Operating Weight - 20.5 Tires** 11795 kg

**Operating Weight - 17.5 Tires** 11429 kg

**ROPS** SAE J1040 MAY94, ISO 3471-1994.

**FOPS** SAE J/ISO 3449 APR98, Level II, ISO 3449 1992 Level II.

**Note (2)** A semi-cab option is available.

**Note (1)** Cab and Rollover Protective Structures (ROPS) are standard.

**Hydraulic Tank** 90 l

**Cooling System** 32 l

**Transmission - Gear Box** 8.5 l

**Hydraulic System - Including Tank** 160 l

**Fuel Tank** 195 l

**Front Axles** 21 l

**Engine Crankcase** 19.5 l

**Rear Axles** 21 l

**Notes** Factory default is 7 km/h (4.4 mph).

**Note** \*Creeper control allows max. speed range adjustability from 1 km/h (0.6 mph) to 13 km/h (8 mph) in Range 1 through sec. display.

**Forward and Reverse** 13 km/h

**Forward and Reverse -  
Range 2** 1.5 km/h

**Forward and Reverse -  
Range 1\*** 1-13 km/h (0.6-8 mph)

**Forward and Reverse -  
Range 4** 40 km/h

**Forward and Reverse -  
Range 3** 27 km/h

**Note (1)** Declared dynamic operator sound pressure level is 72 dB(A) when "ISO 6396:2008" is used to measure value for an enclosed cab.

**Note (2)** The measurement was conducted at 70% of the maximum engine cooling fan speed, with the cab doors and cab windows closed.

**Note (3)** The declared exterior sound power level is 104 dB(A) when the value is measured according to "ISO 6395:2008."

**Maximum Steering Torque - 40° (Full Turn)** 37620 N·m

**Steering Articulation Angle - Each Direction** 40°

**Maximum Flow - Steering Pump** 125 l/min

**Number of Steering Wheel Turns - Full Left to Full Right or Full Right to Full Left** 3.5 turns

**Maximum Steering Torque - 0° (Straight Machine)** 50375 N·m

**Steering Cycle Times - Full Left to Full Right - At 1,800 rpm: 90 rpm Steering Wheel Speed** 2.4 s

**Maximum Working Pressure - Steering Pump** 24130 kPa

<b>Hydraulic Cycle Time - Standard Mode at 1,600 rpm - Total Cycle Time</b>	10.6 s
<b>Hydraulic Cycle Time - Standard Mode at 1,600 rpm - Float Down, Maximum Lift to Ground Level</b>	2.6 s
<b>Maximum Flow - Implement Pump - 4th Function Maximum Flow*</b>	150 l/min
<b>Hydraulic Cycle Time - Standard Mode at 1,600 rpm - Raise, Ground Level to Maximum Lift</b>	6.3 s
<b>Hydraulic Cycle Time - Performance Mode at 1,800 rpm - Float Down, Maximum Lift to Ground Level</b>	2.6 s
<b>Relief Pressure - Tilt Cylinder - 3rd Function Maximum Working Pressure</b>	26000 kPa
<b>Maximum Flow - Implement Pump - 3rd Function*</b>	150 l/min
<b>Maximum Working Pressure - Implement Pump</b>	26000 kPa
<b>Maximum Flow - Implement Pump</b>	150 l/min
<b>Hydraulic Cycle Time - Performance Mode at 1,800 rpm - Total Cycle Time</b>	9.5 s
<b>Relief Pressure - Tilt Cylinder - 4th Function Maximum Working Pressure</b>	26000 kPa
<b>Hydraulic Cycle Time - Performance Mode at 1,800 rpm - Raise, Ground Level to Maximum Lift</b>	5.4 s
<b>Relief Pressure - Tilt Cylinder</b>	28000 kPa

**Hydraulic Cycle Time - Performance Mode at 1,800 rpm - Dump, at Maximum Lift Height** 1.5 s

**Hydraulic Cycle Time - Standard Mode at 1,600 rpm - Dump, at Maximum Lift Height** 1.7 s

**Note** \*Adjustable from 20% to 100% of maximum flow through the secondary display, when equipped.

**Other Choices Vary by Region** 17.5 R25, radial (L-3); 17.5-25 16 PR (L-3); 20.5-25 16 PR (L-3)

**Note (2)** In certain applications, the loader's productive capabilities may exceed the tire's tonnes-km/h (ton-mph) capabilities.

**Note (1)** Other tire choices are available. Contact your Cat dealer for details.

**Note (3)** Caterpillar recommends that you consult a tire supplier to evaluate all conditions before selecting a tire model.

**Standard Size** 20.5 R25, radial (L-3)

**Front** Fixed; Open differential (standard); Locking differential (optional)

**Rear** Oscillating  $\pm 11$  degrees; Open differential (standard); Limited slip differential (optional in some regions)

## **924K STANDARD EQUIPMENT**

### **POWER TRAIN**

Auto idle shut down feature

Axle seal guards

Cat C7.1 engine

Power Modes (Standard and Performance)

Power by Range (High Power in Range 4)

Turbocharged and aftercooled

Filtered crankcase breather

Coded start (requires secondary display)

Coolant protection to -34° C (-29° F)

Enclosed wet disc full hydraulic brakes

Fuel priming pump, automatic

Hydraulically driven demand cooling fan

Hydrostatic transmission with electronic control

Operator modes (Default, TC, Hystat and Ice)

Directional Shift Aggressiveness (fast, medium, slow)

Rimpull control, adjust wheel torque

Creeper control, adjust ground speed

Parking brake, electric

Single plane cooling package, wide six fins per inch density

Throttle lock and maximum speed limiter

**HYDRAULICS**

## **HYDRAULICS**

Automatic lift, lower and tilt kickouts, adjustable in-cab  
Bucket and Fork Modes, adjustable in-cab  
Cylinder damping at kickout and mechanical end stops  
Fine Mode control (fast, medium, slow) in fork mode  
Hydraulic Response setting (fast, medium, slow)  
Hydraulic diagnostic connectors and S·O·S<sup>SM</sup> ports  
Load sensing hydraulics and steering

## **ELECTRICAL**

Alternator, 115-amp, heavy duty  
12V power supply in cab (2)  
Batteries, 1,000 CCA (2) 24V system, disconnect switch  
Back-up alarm  
Emergency shutdown switch  
Halogen work and roading lights, LED rear tail lights  
Remote jump start post  
Resettable main and critical function breakers

## **OPERATOR ENVIRONMENT**

75 mm (3 in) retractable seat belt, with audible alarm and indicator  
Automatic temperature control  
External mirrors with lower parabolic  
Hydraulic control lockout  
Interior cab lighting, door and dome  
Interior rear view mirrors (2)  
Lunch box storage  
Radio ready speakers  
Seat-mounted electronic implement controls, adjustable  
Column mounted multi function control – lights, wipers, turn signal  
Tilt and telescopic steering wheel  
Tinted front glass

## **OTHER STANDARD EQUIPMENT**

Large-access enclosure doors with adjustable close/open force  
Parallel lift loader linkage





# 924K OPTIONAL EQUIPMENT

## OPTIONAL EQUIPMENT

Auto lube, integrated in secondary display

Auxiliary flow, third and fourth function, adjustable through secondary display

Beacon light, strobe

Cab, deluxe

Camera, roof mounted, front view with separate display\*

Rear window defroster (standard in Europe)

Secondary display to adjust settings (standard in Europe)

Sunscreen, front and rear

Wet arm wiper/washer, front and rear

Camera, rear view (standard in Europe)

Cold start package

Corrosion protection package

Counterweight (heavy and logger)

Coupler (Fusion™ and ISO 23727)

Debris packages (low, medium, high)

Differential lock, front axle

Fenders (extended cover and full coverage)

Guarding (machine and operator)

Lights, auxiliary, halogen or LED with engine compartment lights

Lights, LED front roading

Load check valves

Object Detection

Product Link™ PRO and ELITE with capabilities for software push, data logging, histogram and trend mapping

Radio packages

Rear wiper

Ride Control System, adjustable through secondary display

Seats

Deluxe seat – fully adjustable fabric air suspension seat with mid backrest and mechanical lumbar support

Premium seat – fully adjustable leather and fabric air suspension with high backrest and air lumbar support. Seat is heated and ventilated on bottom cushion and backrest.

Steering

Dual mode and secondary

CE Certification (standard in Europe)

NOTE: Not all features are available in all regions.

\*Forward facing camera system may be required for local EU requirements.

Consult your local Cat dealer for additional information.

