

Cat® 924K

WHEEL LOADER

K Series - Making Your Choice Easy:

- Enjoy All Day Comfort Have a seat in the updated K Series Small Wheel Loader and enjoy excellent all around visibility and low-effort joystick controls that move with you on a fully adjustable seat suspension. A large spacious operator environment combined with Caterpillar's exclusive hydraulic cylinder damping and smooth predictable controls make this the most comfortable seat on your job site.
- Work Made Easy Move more with Caterpillar's patented quick loading Performance Series buckets and optimized Z-bar linkage that combines the digging efficiency of a traditional Z-bar with tool carrier capabilities. The parallel lift and high tilt forces throughout the working range allow you to safely and confidently handle loads with precise control.
 - Multi-function work has never been easier with dedicated pumps for each system and a flow sharing implement valve governed by an intelligent power management system. Simultaneously lift, steer and drive without compromise. The K Series Small Wheel Loader simply does what you ask it to do.
- Efficiently Powerful Experience hybrid like fuel efficiency with an intelligent hydrostatic power train and industry leading fuel savings through a lower maximum engine speed of just 1,600 rpm in Standard Mode. Power when you need it with Caterpillar's exclusive Power-by-Range technology that increases power in Range 4 for improved speed on grade. For your toughest and most demanding applications a new Performance Mode will allow you to boost the power and hydraulic speed in all ranges to get the job done even quicker. Meets U.S. EPA Tier 3/EU Stage IIIA/Brazil MAR-1 equivalent emission standards with a Cat® C7.1 engine that is designed to manage itself so you can concentrate on your work.
- Customize Your Experience Meet your application requirements and individual preferences with Caterpillar's industry first Hystat™ Operator Modes featuring four unique power train settings. Select classic Torque Converter for smooth rollout, conventional Hystat for aggressive engine braking, an Ice Mode that maximizes your control on slippery underfoot, or default mode which blends the best of Hystat and Torque Converter characteristics. Fine tune machine performance with adjustments at your fingertips through the soft touch buttons and optional secondary display. Quickly set hydraulic response along with linkage kick-out positions, maximum wheel torque, and peak ground speed to efficiently perform a multitude of tasks.

Specifications

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Engine Model	Cat C7.1			
Power Mode	Standard Mode		Performance Mode	
Speed Range	Range 1-3*		Range 1-4	
Maximum Gross Power				
Maximum Engine Speed	1,600 rpi	m	1,800 rpr	n
ISO 14396	101 kW	135 hp	105 kW	141 hp
ISO 14396 (metric)		137 hp		143 hp
Net Power	1,600 rpi	m	1,800 rpr	n
SAE J1349	98 kW	131 hp	102 kW	137 hp
ISO 9249 (metric)		135 hp		140 hp

Engine (continued)

	Standard Mode		Performance Mode	
Maximum Gross Torque				
ISO 14396	725 N·m	534 lbf-ft	725 N·m	534 lbf-ft
Maximum Net Torque				
SAE J1349	704 N·m	519 lbf-ft	704 N⋅m	519 lbf-ft
ISO 9249 (1977)/EEC 80/1269	711 N·m	524 lbf-ft	711 N·m	524 lbf-ft
Displacement	7.01 L	427 in ³	7.01 L	427 in ³

- Engine meets U.S. EPA Tier 3/EU Stage IIIA/Brazil MAR-1 equivalent emission standards.
- Net power shown is the power available at the flywheel when the engine is equipped with alternator and air cleaner.
- *Range 4 power is boosted to be the same as Performance Mode.



924K Wheel Loader

Buckets

1.7-2.5 m ³	2.2-3.2 yd ³
3.1-5.0 m ³	4.0-6.5 yd ³
40°	
125 L/min	33 gal/min
24 130 kPa	3,500 psi
50 375 N⋅m	37,155 lbf-ft
37 620 N⋅m	27,747 lbf-ft
2.4 seconds	
	3.1-5.0 m³ 40° 125 L/min 24 130 kPa 50 375 N·m 37 620 N·m

3.5 turns

Loader Hydraulic System

Number of Steering Wheel Turns – full left to full right or full right to full left

150 L/min	40 gal/min
150 L/min	40 gal/min
150 L/min	40 gal/min
26 000 kPa	3,771 psi
28 000 kPa	4,061 psi
26 000 kPa	3,771 psi
26 000 kPa	3,771 psi
Standard Mode at 1,600 rpm	Performance Mode at 1,800 rpm
6.3 seconds	5.4 seconds
1.7 seconds	1.5 seconds
2.6 seconds	2.6 seconds
10.6 seconds	9.5 seconds
	150 L/min 150 L/min 26 000 kPa 28 000 kPa 26 000 kPa 26 000 kPa Standard Mode at 1,600 rpm 6.3 seconds 1.7 seconds

^{*}Adjustable from 20% to 100% of maximum flow through the secondary display, when equipped.

Service Refill Capacities

-		
Fuel Tank	195 L	51.5 gal
Cooling System	32 L	8.5 gal
Engine Crankcase	19.5 L	5.2 gal
Transmission (gearbox)	8.5 L	2.2 gal
Axles:		
Front	21 L	5.5 gal
Rear	21 L	5.5 gal
Hydraulic System (including tank)	160 L	42.3 gal
Hydraulic Tank	90 L	23.8 gal

Transmission

Forward and Reverse:		
Range 1*	1-13 km/h	0.6-8 mph
Range 2	13 km/h	8 mph
Range 3	27 km/h	17 mph
Range 4	40 km/h	25 mph

^{*}Creeper control allows maximum speed range adjustability from 1 km/h (0.6 mph) to 13 km/h (8 mph) in Range 1 through the secondary display, when equipped. Factory default is 7 km/h (4.4 mph).

Tires

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

- · Other tire choices are available. Contact your Cat dealer for details.
- In certain applications, the loader's productive capabilities may exceed the tire's tonnes-km/h (ton-mph) capabilities.
- Caterpillar recommends that you consult a tire supplier to evaluate all conditions before selecting a tire model.

Cab

ROPS	SAE J1040 MAY94, ISO 3471-1994
FOPS	SAE J/ISO 3449 APR98, Level II,
	ISO 3449 1992 Level II

- · Cab and Rollover Protective Structures (ROPS) are standard.
- A semi-cab option is available.

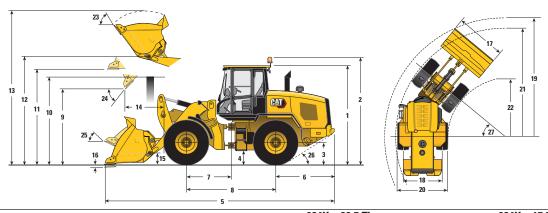
Sound

- The declared dynamic operator sound pressure level is 72 dB(A) when "ISO 6396:2008" is used to measure the value for an enclosed cab.
- The measurement was conducted at 70% of the maximum engine cooling fan speed, with the cab doors and cab windows closed.
 The cab was properly installed and maintained. The sound level may vary at different engine cooling fan speeds.
- The declared exterior sound power level is 104 dB(A) when the value is measured according to the dynamic test procedures and the conditions that are specified in "ISO 6395:2008."

Axles

Fixed
Open differential (standard)
Locking differential (optional)
Oscillating ±11 degrees
Open differential (standard)
Limited slip differential (optional in some regions)

Dimensions and Operating Specifications (All dimensions are approximate. Dimensions vary with bucket and tire choice.)



		924K – 20.5 Tires		924K – 17.5 Tires	
-	Counterweight Configuration	Standard		Stan	dard
	Height: Ground to Cab	3340 mm	10'11"	3252 mm	10'8"
	Height: Ground to Beacon	3707 mm	12'2"	3619 mm	11'10"
	Height: Ground to Axle Center	685 mm	2'3"	597 mm	2'0"
** 4	Height: Ground Clearance	397 mm	1'4"	309 mm	1'0"
* 5	Length: Overall	7446 mm	24'5"	7514 mm	24'8"
	Length: Rear Axle to Bumper	1986 mm	6'6"	1986 mm	6'6"
7	Length: Hitch to Front Axle	1500 mm	4'11"	1500 mm	4'11"
	Length: Wheel Base	3000 mm	9'10"	3000 mm	9'10"
	Clearance: Bucket at 45 degrees	2801 mm	9'2"	2713 mm	8'11"
	Clearance: Load Over Height	3308 mm	10'10"	3220 mm	10'7"
	Clearance: Level Bucket	3526 mm	11'7"	3437 mm	11'3"
	Height: Bucket Pin	3853 mm	12'8"	3765 mm	12'4"
	Height: Overall	5068 mm	16'8"	4980 mm	16'4"
	Reach: Bucket at 45 degrees	990 mm	3'3"	1057 mm	3'6"
	Carry Height: Bucket Pin	402 mm	1'4"	408 mm	1'4"
** 16	Dig Depth	100 mm	3.9"	188 mm	7.4"
	Width: Bucket	2550 mm	8'4"	2550 mm	8'4"
	Width: Tread Center	1933 mm	6'4"	1943 mm	6'4"
	Turning Radius: Over Bucket	5916 mm	19'5"	5933 mm	19'6"
	Width: Over Tires	2543 mm	8'4"	2456 mm	8'1"
	Turning Radius: Outside of Tires	5404 mm	17'9"	5360 mm	17'7"
	Turning Radius: Inside of Tires	2850 mm	9'4"	2893 mm	9'6"
	Rack Angle at Full Lift	53 de	<u> </u>	53 de	•
	Dump Angle at Full Lift	49 de	•	49 degrees	
	Rack Angle at Carry	42 degrees		44 degrees	
	Departure Angle	33 degrees		33 degrees	
	Articulation Angle	40 degrees		40 de	
*	Tipping Load – Straight (ISO 14397-1)	8441 kg	18,609 lb	8192 kg	18,060 lb
*	Tipping Load – Full Turn (ISO 14397-1)	7258 kg	16,001 lb	7043 kg	15,527 lb
*	Nominal Material Density 110% Fill Factor	1571 kg/m³	2,648 lb/yd ³	1525 kg/m ³	2,570 lb/yd ³
*	Breakout	9645 kg	21,264 lb	9690 kg	21,363 lb
*	Operating Weight	11 795 kg	26,004 lb	11 429 kg	25,196 lb

^{*}Vary with bucket.

Dimensions listed are for a machine configured with specified tires and counterweight, 80 kg (176 lb) operator, and power train guard. Values listed are for a 2.1 m³ (2.7 yd³) general purpose performance series pin on bucket with bolt-on cutting edge.

^{**}Vary with tire.

STANDARD EQUIPMENT

POWER TRAIN

- Auto idle shut down feature
- 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 max speed limiter

HYDRAULICS

- Automatic lift and bucket 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·SSM 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

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

Consult your local Cat dealer for additional information.

- Camera, rear view (standard in Europe)
- Cold start package
- Corrosion protection package
- Counterweight, (heavy and logger)
- Coupler, (FusionTM 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.



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

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