

Product Specifications For 924



Engine

Rated Engine Power - ISO 14396	105 kW
Engine Model	Cat C7.1*
Performance Mode	Automatic
Rated Gross Power - Rated Engine Speed	1800 r/min
Rated Engine Power - ISO 14396 (DIN)	143 mhp
Rated Net Power - SAE J1349 at Minimum Fan Speed	102 kW
Rated Net Power - ISO 9249 at Minimum Fan Speed	102 kW
Rated Net Power - ISO 9249 (DIN) at Minimum Fan Speed	140 mhp
Maximum Gross Torque - Engine Speed	1400 r/min
Maximum Gross Torque - ISO 14396	725 N·m
Maximum Net Torque - SAE J1349	704 N·m
Maximum Net Torque - ISO 9249	711 N·m

Displacement	7.01 l
Bore	105 mm
Stroke	135 mm
Note	*Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
Note (1)	Advertised power is tested per the specified standard in effect at the time of manufacture.
Note (2)	Net power ratings are tested at the reference conditions for the specified standard and denote power available at the flywheel when engine is equipped with alternator, air cleaner, emission components and fan at specified speed.

Weights

Operating Weight	11775 kg
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Buckets

Bucket Capacities	1.9-5 m ³ (2.5-6.5 yd ³)
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Steering

Steering Cylinder - Bore Diameter	70 mm
Steering Cylinder - Rod Diameter	40 mm
Steering Cylinder - Stroke	438 mm
Maximum Flow - Steering Pump	125 l/min
Maximum Working Pressure - Steering Pump	24130 kPa
Steering Cycle Times (Full Left to Full Right) - Minimum RPM: Pump Flow Limited	2.8 s

Loader Hydraulic System

Maximum Flow - Implement Pump	150 l/min
Maximum Flow - Implement Pump - 3rd Function Maximum Flow*	150 l/min
Maximum Flow - Implement Pump - 4th Function Maximum Flow*	150 l/min
Maximum Working Pressure - Implement Pump	26000 kPa
Relief Pressure - Tilt Cylinder	28000 kPa
Relief Pressure - Tilt Cylinder - 3rd and 4th Function Maximum Working Pressure	26000 kPa
Relief Pressure - Tilt Cylinder - 3rd and 4th Function Relief Pressure	28000 kPa
Lift Cylinder: Standard Lift Linkage - Bore Diameter	110 mm
Lift Cylinder: Standard Lift Linkage - Rod Diameter	60 mm
Lift Cylinder: Standard Lift Linkage - Stroke	728 mm
Tilt Cylinder: Standard Lift Linkage - Bore Diameter	130 mm
Tilt Cylinder: Standard Lift Linkage - Rod Diameter	70 mm

Tilt Cylinder: Standard Lift Linkage - Stroke	555 mm
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Hydraulic Cycle Time - Raise, Ground Level to Maximum Lift	5.4 s
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Hydraulic Cycle Time - Dump (at Maximum Lift Height)	1.5 s
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Hydraulic Cycle Time - Float Down, Maximum Lift to Ground Level	2.6 s
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Hydraulic Cycle Time - Total Cycle Time	9.5 s
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Note	*3rd and 4th function flow is fully adjustable from 20% to 100% of maximum flow through the secondary display when equipped.
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Service Refill Capacities

Fuel Tank	195 l
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Cooling System	32 l
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Engine Crankcase	19.5 l
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Transmission - Gear Box	8.5 l
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Front Axles	21 l
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Rear Axles	21 l
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Hydraulic System - Including Tank	160 l
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Hydraulic Tank	90 l
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Transmission

Forward and Reverse - Range 1*	1-13 km/h (0.6-8 mph)
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Forward and Reverse - Range 2	13 km/h
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Forward and Reverse - Range 3	27 km/h
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Forward and Reverse - Range 4	40 km/h
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Note	*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).
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Tires

Standard Size	20.5 R25, radial (L-3)
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Other Choices Include	17.5 R25, radial (L-3), 17.5-25 16 PR (L-3), 20.5-25 16 PR (L-3)
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Note (1)	Other tire choices are available. Contact your Cat dealer for details.
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Note (2)	In certain applications, the loader's productive capabilities may exceed the tire's tonnes-km/h (ton-mph) capabilities.
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Note (3)	Caterpillar recommends that you consult a tire supplier to evaluate all conditions before selecting a tire model.
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Cab

ROPS	ISO 3471:2008
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FOPS	ISO 3449:2005 LEVEL II
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Axles

Front	Fixed; Open differential (standard); Locking differential (optional)
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Rear	Oscillating \pm 11 degrees; Open differential (standard); Limited slip differential (optional)
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Air Conditioning System

Air Conditioning The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.9 kg (4.2 lb) of refrigerant which has a CO2 equivalent of 2.717 metric tonnes (2.99 tons).

Sound

Operator Sound Pressure (ISO 6396:2008) 68 dB(A)

Average Exterior Sound Pressure (ISO 6395:2008) 101 dB(A)

Note (1) Measurements were conducted with properly installed and maintained cab doors and windows closed.

Sustainability

Recyclability 95%

Dimensions With Bucket - Standard Lift

Height - Ground to Cab** 3340 mm

Height - Ground to Beacon** 3707 mm

Height - Ground to Axle Center** 685 mm

Height - Ground Clearance** 397 mm

Length - Overall* 7418 mm

Length - Rear Axle to Bumper 1958 mm

Length - Hitch to Front Axle 1500 mm

Length - Wheel Base 3000 mm

Clearance - Bucket at 45°*	2801 mm
Clearance - Load over Height**	3308 mm
Clearance - Level Bucket**	3526 mm
Height - Bucket Pin**	3853 mm
Height - Overall**	5068 mm
Reach - Bucket at 45°*	990 mm
Carry Height - Bucket Pin	402 mm
Dig Depth**	100 mm
Width - Bucket	2550 mm
Width - Tread Center	1933 mm
Turning Radius - Over Bucket	5916 mm
Width - Over Tires	2543 mm
Turning Radius - Outside of Tires	5404 mm
Turning Radius - Inside of Tires	2850 mm
Rack Angle at Full Lift	53 °
Dump Angle at Full Lift	49 °

Rack Angle at Carry	42 °
Departure Angle	33 °
Articulation Angle	40 °
Tipping Load - Straight (ISO 14397-1:2007)*	8652 kg
Tipping Load - Full Turn (ISO 14397-1:2007)*	7499 kg
Breakout*	9646 kg
Operating Weight	11775 kg
Note (1)	*Vary with bucket.
Note (2)	**Vary with tire.
Note (3)	Dimensions listed are for a machine configured with standard counterweights, 20.5 tires, 80 kg (176 lb) operator, and power train guard. Values are listed for a 2.1 m ³ (2.7 yd ³) pin on, general purpose performance series bucket with bolt-on cutting edge.

924 Standard Equipment

NOTE: Not All Features Are Available In All Regions.

OPERATOR ENVIRONMENT

75 mm (3 in) retractable seatbelt
Automatic temperature control
Cab, enclosed ROPS/FOPS pressurized and sound suppressed
Push to Start
8 Inch Touch Screen
Programmable Joystick
Cup holders
External mirrors with lower parabolic
Ground level cab door release
Hydraulic control lockout

Interior cab lighting, door
Lunch box storage
Radio ready speakers
Seat mounted electronic implement controls, adjustable
Sliding glass on side window
Column mounted multi function control lights, wipers, turn signal
Suspension seat, fabric
Tilt steering wheel
Tinted front glass
Wet arm wiper/washer, 2-speed and intermittent, front
Wet arm wiper washer, rear
Mounting Provision
Digital hour meter, odometer and tachometer
Digital ground speedometer and direction indicator
Engine coolant temperature gauge
Fuel and diesel exhaust fluid levels
Hydraulic oil temperature gauge
Fuel and diesel exhaust fluid levels
Hydraulic oil temperature gauge

POWER TRAIN

Cat C7.1 engine
Auto idle shut down feature
Auto Engine RPM
Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
Turbocharged and aftercooled
Filtered crankcase breather
Power Modes (standard and performance)
Dry type air cleaner
Coolant protection to -34 °C (-29 °F)
Fuel priming pump, automatic
Fuel water separator
Axle seal guards
Enclosed wet disc full hydraulic brakes
Parking brake, electric
Lubed for life driveshafts
Hydrostatic transmission with electronic control
Operator modes (TC, Hystat, Single Pedal and Ice)
Directional shift aggressiveness (fast, medium, slow)
Auto Wheel Torque control, adjust wheel torque
Creeper control, adjust ground speed
Single plane cooling package, wide 6 fins per inch density
Hydraulically driven demand cooling fan
Scheduled Oil Sampling (S-O-SSM) port, engine, coolant, transmission

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)
Hydraulic response setting (fast, medium, slow)
Hydraulic diagnostic connectors and S·O·S ports
Hydraulic sight gauge, visible
Load sensing hydraulics and steering
Seat mounted hydraulic joystick controls

ELECTRICAL

Alternator, 115-amp, heavy duty
12V power supply in cab (2)
Batteries, 1,000 CCA (2) 24-volt system, disconnect switch
Back up alarm
Emergency shutdown switch
LED rear stop and turn lights
Heavy duty gear reduction starter
Product Link™
Remote jump start post
Resettable main and critical function breakers
Roading lights front and rear

OTHER

Large-access enclosure doors with adjustable close/open force
Parallel lift loader linkage
Recovery hitch with pin
Remote mounted lubrication points
Lockable compartments

924 Optional Equipment

NOTE: Not All Features Are Available In All Regions.

OPERATOR ENVIRONMENT

Joystick steering – 25 mph (40 kph) capable
Radio packages
Telescoping Steering Column
Deluxe seat – fully adjustable fabric air suspension seat with mid seat backrest
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.
Rear Object Detection
Multi View Camera
Front View Camera, roof mounted
Heated external Mirrors (2)
Electrically adjustable and heated external mirrors (2)
Internal Mirrors (2)

Sunscreen, front and rear
Operator Not Present system
Powered precleaned for cab air
Cab guarding

POWER TRAIN

Differential, limited slip, rear
Differential lock in front axle
Powertrain Guarding
Range of Tire Options
Fenders (extended cover and full coverage)

HYDRAULICS

Auxiliary flow, third and fourth function
Connect Under Pressure Disconnects
Ride Control System, adjustable via display
Autolube, integrated in display
Debris packages (low, medium, high)

ELECTRICAL

Cold start package
Ether starting aid, block heater and additional batteries, 1,000 CCA (4 total)
Lights, auxiliary, halogen or LED with engine compartment lights
Beacon light, strobe
Light Guarding

OTHER OPTIONAL EQUIPMENT

Coupler (Fusion)
Heavy Counterweight
Cat Payload Printer
Cylinder Guarding
Range of Work Tool Attachments