

Product Specifications For 930



Engine

Rated Gross Power - SAE J1995	127 kW
Engine Model	Cat C7.1*
Performance Mode	Automatic
Rated Gross Power - Rated Engine Speed	1800 r/min
Rated Gross Power - SAE J1995 (DIN)	172 mhp
Rated Engine Power - ISO 14396	125 kW
Rated Engine Power - ISO 14396 (DIN)	170 mhp
Rated Net Power - SAE J1349 at Minimum Fan Speed	123 kW
Rated Net Power - ISO 9249 at Minimum Fan Speed	123 kW
Rated Net Power - ISO 9249 (DIN) at Minimum Fan Speed	167 mhp
Maximum Gross Torque - Engine Speed	1400 r/min
Maximum Gross Torque - SAE J1995	824 N·m

Maximum Gross Torque - ISO 14396	815 N·m
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Maximum Net Torque - SAE J1349	804 N·m
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Maximum Net Torque - ISO 9249	807 N·m
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Displacement	7.01 l
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Bore	105 mm
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Stroke	135 mm
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Note	*Meets U.S EPA Tier 4 Final, EU Stage V off-highway, and Japan 2014 emission standards.
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Note (1)	Advertised power is tested per the specified standard in effect at the time of manufacture
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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.
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Note (3)	No derating required up to 3000 m (10,000 ft) altitude. Auto derate protects hydraulic and transmission systems.
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Weights

Operating Weight	14117 kg
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Operating Weight - High Lift	14349 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	130 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
Steering Cycle Times (Full Left to Full Right) - Maximum RPM: 90 RPM Steering Wheel Speed	2.4 s

Loader Hydraulic System

Maximum Flow - Implement Pump	190 L/min
Maximum Flow - Implement Pump - 3rd Function Maximum Flow*	190 L/min
Maximum Flow - Implement Pump - 4th Function Maximum Flow*	160 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	120 mm

Lift Cylinder: Standard Lift Linkage - Rod Diameter	65 mm
Lift Cylinder: Standard Lift Linkage - Stroke	728 mm
Tilt Cylinder: Standard Lift Linkage - Bore Diameter	150 mm
Tilt Cylinder: Standard Lift Linkage - Rod Diameter	90 mm
Tilt Cylinder: Standard Lift Linkage - Stroke	555 mm
Hydraulic Cycle Time - Raise, Ground Level to Maximum Lift	5.1 s
Hydraulic Cycle Time - Dump (at Maximum Lift Height)	1.5 s
Hydraulic Cycle Time - Float Down, Maximum Lift to Ground Level	2.7 s
Hydraulic Cycle Time - Total Cycle Time	9.3 s
Note	*3rd and 4th function flow is fully adjustable from 20% to 100% of maximum flow through the secondary display when equipped.

Service Refill Capacities

Fuel Tank	195 l
Cooling System	30 l
Engine Crankcase	20 l
Transmission - Gear Box	8.5 l

Front Axles	26 l
Rear Axles	25 l
Hydraulic System - Including Tank	165 l
Hydraulic Tank	90 l
Diesel Exhaust Fluid (DEF) Tank	19 l
Note	DEF used in Cat systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241-1:2019.

Transmission

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

Tires

Standard Size	20.5 R25, radial (L-3)
Other Choices Include	20.5 R25, radial (L-2), 20.5 R25, radial (L-5), 20.5-25 12PR (L-2), 20.5-25 12PR (L-3), 20.5-25 16PR (L-5), 17.5 R25, radial (L-2), 17.5 R25, radial (L-3), 17.5 R25, radial (L-5), 550/65 R25 radial (L-3), Skidder/Agriculture

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; Locking differential (standard)
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Rear	Oscillating ± 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).
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Sound

Operator Sound Pressure (ISO 6396:2008)	68 dB(A)
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Average Exterior Sound Pressure (ISO 6395:2008)	101 dB(A)
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Note (1)	European Union Directive 2000/14/EC and UK Noise Regulation 2001 No. 1701.
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Sustainability

Recyclability	95%
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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*	7530 mm
Length - Rear Axle to Bumper	1993 mm
Length - Hitch to Front Axle	1500 mm
Length - Wheel Base	3000 mm
Clearance - Bucket at 45°*	2828 mm
Clearance - Load over Height**	3331 mm
Clearance - Level Bucket**	3580 mm
Height - Bucket Pin**	3907 mm
Height - Overall**	5147 mm
Reach - Bucket at 45°*	1064 mm
Carry Height - Bucket Pin	390 mm

Dig Depth**	100 mm
Width - Bucket	2550 mm
Width - Tread Center	1930 mm
Turning Radius - Over Bucket	5933 mm
Width - Over Tires	2540 mm
Turning Radius - Outside of Tires	5402 mm
Turning Radius - Inside of Tires	2851 mm
Rack Angle at Full Lift	54 °
Dump Angle at Full Lift	49 °
Rack Angle at Carry	43 °
Departure Angle	33 °
Articulation Angle	40 °
Operating Weight	14117 kg
Note (1)	*Vary with bucket.
Note (2)	**Vary with tire.
Note (3)	Dimensions listed are for a machine configured with 2.1 m ³ (2.7 yd ³) general purpose Fusion™ bucket, bolt-on cutting edge, standard counterweights, additional guarding, 80 kg (176 lb) operator and 20.5 R25 (L-3) XHA2 tires.

Dimensions With Bucket - High 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*	8324 mm
Length - Rear Axle to Bumper	1993 mm
Length - Hitch to Front Axle	1500 mm
Length - Wheel Base	3000 mm
Clearance - Bucket at 45°*	3421 mm
Clearance - Load over Height**	3540 mm
Clearance - Level Bucket**	4173 mm
Height - Bucket Pin**	4500 mm
Height - Overall**	5740 mm
Reach - Bucket at 45°*	1385 mm
Carry Height - Bucket Pin	624 mm

Dig Depth**	135 mm
Width - Bucket	2550 mm
Width - Tread Center	1930 mm
Turning Radius - Over Bucket	6322 mm
Width - Over Tires	2540 mm
Turning Radius - Outside of Tires	5402 mm
Turning Radius - Inside of Tires	2851 mm
Rack Angle at Full Lift	53 °
Dump Angle at Full Lift	48 °
Rack Angle at Carry	49 °
Departure Angle	33 °
Articulation Angle	40 °
Operating Weight	14349 kg
Note (1)	*Vary with bucket.
Note (2)	**Vary with tire.
Note (3)	Dimensions listed are for a machine configured with 2.1 m ³ (2.7 yd ³) general purpose Fusion™ bucket, bolt-on cutting edge, standard counterweights, additional guarding, 80 kg (176 lb) operator and 20.5 R25 (L-3) XHA2 tires.

930 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
Jog Dial with screen control
Programmable Joystick
Cup holders
External mirrors with lower parabolic
Ground level cab door release
Hydraulic control lockout
Interior cab lighting, door
Lunch box storage
Operator Not Present system
Radio ready speakers
Rear window defrost, electric
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

POWER TRAIN

Cat C7.1 engine
Auto idle shut down feature
Auto Engine RPM
Tier 4 Final/EU Stage V compliant
Turbocharged and aftercooled
Filtered crankcase breather
Diesel particulate filter
Selective catalyst reduction
Dry type air cleaner
Coolant protection to -34 °C (-29 °F)
Fuel priming pump, automatic

Fuel water separator
Differential lock in front axle
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
Cat Payload

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™ Elite
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
1000-hour Service Intervals (after initial 500)

930 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

Windshield Washing Platform

Powered precleaned for cab air

Cab guarding

POWER TRAIN

Differential, limited slip, rear

Powertrain Guarding

Tire Pressure Monitoring (TPM)

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

Biodegradable Oil

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 and DEF compartment lights

Beacon light, strobe

Light Guarding

OTHER OPTIONAL EQUIPMENT

Linkage, high lift

Coupler, (Fusion and ISO 23727:2009)

Heavy Counterweight

Aggregate Counterweight

Cat Payload Printer

Cylinder Guarding

Range of Work Tool Attachments