Product Specifications For 930



Engine

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Rated Gross Power - SAE J1995	170 hp
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	168 hp
Rated Engine Power - ISO 14396 (DIN)	170 mhp
Rated Net Power - SAE J1349 at Minimum Fan Speed	165 hp
Rated Net Power - ISO 9249 at Minimum Fan Speed	165 hp
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	608 ft·lbf

Maximum Gross Torque - ISO 14396	601 ft·lbf
Maximum Net Torque - SAE J1349	593 ft·lbf
Maximum Net Torque - ISO 9249	595 ft·lbf
Displacement	427 in³
Bore	4 in
Stroke	5 in
Note	*Meets U.S EPA Tier 4 Final, EU Stage V off-highway, and Japan 2014 emission standards.
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.
Note (3)	No derating required up to 3000 m (10,000 ft) altitude. Auto derate protects hydraulic and transmission systems.
Weights	
Operating Weight	31124 lb

Buckets

Operating Weight - High Lift

Bucket Capacities	1.9-5 m3 (2.5-6.5 yd3)

31633 lb

Steering

Steering Cylinder - Bore Diameter	2.8 in
Steering Cylinder - Rod Diameter	1.6 in
Steering Cylinder - Stroke	17.2 in
Maximum Flow - Steering Pump	34 gal/min
Maximum Working Pressure - Steering Pump	3500 psi
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

Bore Diameter

Maximum Flow - Implement Pump	50 gal/min
Maximum Flow - Implement Pump - 3rd Function Maximum Flow*	50 gal/min
Maximum Flow - Implement Pump - 4th Function Maximum Flow*	42 gal/min
Maximum Working Pressure - Implement Pump	3771 psi
Relief Pressure - Tilt Cylinder	4061 psi
Relief Pressure - Tilt Cylinder - 3rd and 4th Function Maximum Working Pressure	3771 psi
Relief Pressure - Tilt Cylinder - 3rd and 4th Function Relief Pressure	4061 psi
Lift Cylinder: Standard Lift Linkage -	4.7 in

Lift Cylinder: Standard Lift Linkage - Rod Diameter	2.6 in
Lift Cylinder: Standard Lift Linkage - Stroke	28.7 in
Tilt Cylinder: Standard Lift Linkage - Bore Diameter	5.9 in
Tilt Cylinder: Standard Lift Linkage - Rod Diameter	3.5 in
Tilt Cylinder: Standard Lift Linkage - Stroke	21.9 in
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 Canacities	

Service Refill Capacities

Fuel Tank	51.5 gal (US)
Cooling System	7.9 gal (US)
Engine Crankcase	5.3 gal (US)
Transmission - Gear Box	2.2 gal (US)

Front Axles	6.9 gal (US)
Rear Axles	6.6 gal (US)
Hydraulic System - Including Tank	43.6 gal (US)
Hydraulic Tank	23.8 gal (US)
Diesel Exhaust Fluid (DEF) Tank	5 gal (US)
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	8 mile/h
Forward and Reverse - Range 3	17 mile/h
Forward and Reverse - Range 4	25 mile/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-320.5-25 16PR (L-5), 17.5 R25, radial (L-2), 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.
Note (2)	In certain applications, the loader's productive capabilities may exceed the tire's tonnes-km/h (ton-mph) capabilities.
Note (3)	Caterpillar recommends that you consult a tire supplier to evaluate all conditions before selecting a tire model.

Cab

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

Axles

Front	Fixed; Locking differential (standard)
Rear	Oscillating ± 11 degrees; Open differential (standard); Limited slip differential (optional)

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)	European Union Directive 2000/14/EC and UK Noise Regulation 2001 No. 1701.

Sustainability

Recyclability	95%

Dimensions With Bucket - Standard Lift

Height - Ground to Cab**	10.92 ft
Height - Ground to Beacon**	12.17 ft
Height - Ground to Axle Center**	2.25 ft
Height - Ground Clearance**	1.33 ft
Length - Overall*	24.67 ft
Length - Rear Axle to Bumper	6.5 ft
Length - Hitch to Front Axle	4.92 ft
Length - Wheel Base	9.83 ft
Clearance - Bucket at 45°*	9.25 ft
Clearance - Load over Height**	10.9 ft
Clearance - Level Bucket**	11.75 ft
Height - Bucket Pin**	12.83 ft
Height - Overall**	16.9 ft
Reach - Bucket at 45°*	3.5 ft
Carry Height - Bucket Pin	1.25 ft

Dig Depth**	3.9 in
Width - Bucket	8.33 ft
Width - Tread Center	6.33 ft
Turning Radius - Over Bucket	19.5 ft
Width - Over Tires	8.33 ft
Turning Radius - Outside of Tires	17.75 ft
Turning Radius - Inside of Tires	9.33 ft
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	31124 lb
Note (1)	*Vary with bucket.
Note (2)	**Vary with tire.
Note (3)	Dimensions listed are for a machine configured with 2.1 m³ (2.7 yd³) 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**	10.92 ft
Height - Ground to Beacon**	12.17 ft
Height - Ground to Axle Center**	2.25 ft
Height - Ground Clearance**	1.33 ft
Length - Overall*	27.3 ft
Length - Rear Axle to Bumper	6.5 ft
Length - Hitch to Front Axle	4.92 ft
Length - Wheel Base	9.83 ft
Clearance - Bucket at 45°*	11.25 ft
Clearance - Load over Height**	11.58 ft
Clearance - Level Bucket**	13.67 ft
Height - Bucket Pin**	14.75 ft
Height - Overall**	18.83 ft
Reach - Bucket at 45°*	4.58 ft
Carry Height - Bucket Pin	2.08 ft

Dig Depth**	5.3 in
Width - Bucket	8.33 ft
Width - Tread Center	6.33 ft
Turning Radius - Over Bucket	20.75 ft
Width - Over Tires	8.33 ft
Turning Radius - Outside of Tires	17.75 ft
Turning Radius - Inside of Tires	9.33 ft
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	31633 lb
Note (1)	*Vary with bucket.
Note (2)	**Vary with tire.
Note (3)	Dimensions listed are for a machine configured with 2.1 m³ (2.7 yd³) 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 250 hours of Demo

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