

PRODUCT SPECIFICATIONS FOR 906



ENGINE

Maximum Gross Power	74.7 HP
Engine Model	Cat C2.8*
Maximum Engine Speed	2550 rpm
Maximum Gross Power - Rated Engine Speed	2400 r/min
Maximum Gross Power - SAE J1995	74.7 HP
Maximum Gross Power - ISO 14396	74.3 HP
Maximum Gross Power - ISO 14396 (metric)	75.3 mhp
Rated Net Power - Rated Engine Speed	2400 r/min
Rated Net Power - SAE J1349	72.7 HP
Rated Net Power - ISO 9249	72.1 HP
Rated Net Power - 2,400 rpm - ISO 9249 (metric)	73.1 mhp
Maximum Gross Torque - SAE J1995	222 lb/ft

Maximum Gross Torque - ISO 14396 221 lb/ft

Maximum Net Torque - SAE J1349 218 lb/ft

Maximum Net Torque - ISO 9249 217 lb/ft

Displacement 171 in³

Bore 3.54 in

Stroke 4.33 in

Note Advertised power is tested per the specified standard in effect at the time of manufacture.

Note (1) Net power advertised is the power available at the flywheel.

Note (2) *Two Cat C2.8 engine emission options are available: 1) Meets U.S. EPA Tier 4 Final, EU Stage V. 2) U.S. EPA Tier 3 and EU Stage IIIA equivalent. Tier 3 engine specs are 0.3 kW/0.4 hp more gross power (SAE J1995), 0.2 kW/0.3 hp on net power (SAE J1349) and 1 N·m/0.7 lb-ft higher on gross torque (SAE J1995).

Note (3) #Maximum gross and net torque measured at 1,600 rpm.

WEIGHTS

Operating Weight 12628 lb

BUCKETS

Bucket Capacities 0.75-1.55 m³ (1.0-2 yd³)

Bucket Capacities - General Purpose 0.80-1.35 m³ (1.0-1.7 yd³)

Bucket Capacities - Light Material 1.25-1.55 m³ (1.6-2 yd³)

Multi-Purpose	0.75-1.1 m ³ (1.0-1.4 yd ³)
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Note	Bucket selection must be made with an understanding of the material density and application to ensure machine stability is maintained within the tipping loads stated per model and configuration.
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Note (1)	Bucket capacities stated include BOCE, in line with ISO 7546.
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SERVICE REFILL CAPACITIES

Fuel Tank	18.5 Gal
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Cooling System	3.2 Gal
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Engine Crankcase	2.3 Gal
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Axles - Front CenterDifferential	2.3 Gal
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Axles - Rear CenterDifferential	2.3 Gal
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Hydraulic System - Including Tank	17.8 Gal
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Hydraulic Tank	11.8 Gal
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Transmission	0.6 Gal
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Note	No Diesel Exhaust Fluid (DEF) fluid needed on this size engine.
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AXLES

Front	Fixed (standard) Locking Differential (optional)
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Rear	Fixed (standard) Locking Differential (optional)
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Note	Oscillation of ± 11 degrees via hitch between front and rear frames.
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STEERING

SteeringArticulation Angle - Each Direction	39 °
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Maximum Flow - SteeringPump

12.3 gal/min

Maximum Working Pressure- SteeringPump

3336 psi

SteeringCycle Times – (full left to full right)– at High Idle

2.8 s

Number of SteeringWheel Turns - Full Left to Full Right or Full Right to Full Left

3.25 turns or 4.00 turns

TRANSMISSION

Forward and Reverse- SpeedRange Creep#

6 mile/h

Forward and Reverse- SpeedRange 1*

6 mile/h

Forward and Reverse- SpeedRange 2 - High Speed**

10.5 mile/h

Forward and Reverse- SpeedRange 2 - Standard**

12 mile/h

Forward and Reverse- SpeedRange 3***

25 mile/h

Note

#Factory default shown, can be adjusted to any speed up to 19 km/h (12 mph).

Note (1)

*Creep function not available in this gear or above.

Note (2)

**Max speed dependent on model and configuration (standard vs. high speed transmission).

Note (3)

***Reverse is 30 km/h (19 mph).

TIRES

Tire Size - Standard

*405/70 R18 SPT9

Tire Size - Optional

405/70 R18 Powerloads

**Tire Size - Optional
(1)** 340/80 R18 XMCL/Bibload

**Tire Size - Optional
(2)** 340/80 R18 TRI 2

**Tire Size - Optional
(3)** 40X14-20 TL, SM/TR

**Tire Size - Optional
4** 340/80 R18 Duraforce

Note *This tire has been used for all dimension, stability and performance data.

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

Note (1) Canopy and cab, Rollover Protective Structures (ROPS) are available worldwide. Canopy not available in EU.

LOADER HYDRAULIC SYSTEM

**Main Relief- 1st Auxiliary (3rd
slice)** 3408 psi

**Main Relief- 1st Auxiliary (3rd
slice) - Standard Flow*** 21 gal/min

**Main Relief- 1st Auxiliary (3rd
slice) - High Flow*** 32 gal/min

Main Relief - 2nd Auxiliary (4th slice)	3408 psi
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Main Relief - 2nd Auxiliary (4th slice) - Flow	12 gal/min
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Hydraulic Cycle Time - Rackback	2.2 s
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Hydraulic Cycle Time - Lift	5 s
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Hydraulic Cycle Time - Dump	1.6 s
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Hydraulic Cycle Time - Float Down	2.8 s
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Note	* Maximum flow stated, actual flow delta could be 6% from data shown. Also adjustable from 20% to 100% of maximum flow through display.
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DIMENSIONS - WITH HPL-V COUPLER - APPROXIMATE#

Height: Ground to Cab**	8.08 ft
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Height: Ground to Beacon**	8.67 ft
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Height: Ground Axle Center**	1.58 ft
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Height: Ground Clearance**	1 ft
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Length: Overall*	17.58 ft
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Length: Rear Axle to Bumper	4.58 ft
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Length: Hitch to Front Axle	3.58 ft
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Length: Wheel Base	7.08 ft
Clearance: Bucket at 45° *	8.25 ft
Clearance: Load over Height**	9.5 ft
Clearance: Level Bucket**	9.92 ft
Height: Bucket Pin**	10.67 ft
Height: Overall**	13.5 ft
Reach: Bucket at 45° *	2.42 ft
Carry Height: Bucket Pin	1.08 ft
Dig Depth**	0.33 ft
Width: Bucket	6.17 ft
Width: Tread Center	4.67 ft
Turning Radius: Over Bucket	14.17 ft
Width: Over Tires	6.08 ft
Turning Radius: Outside of Tires	12.92 ft
Turning Radius: Inside of Tires	6.75 ft
Rack Angle at Full Lift	56°

Dump Angle at Full Lift 45°

Rack Angle at Carry 51°

Departure Angle - Degrees 30°

Articulation Angle - Degrees 39°

Operating Weight: Bucket[^] 12632 lb

Tipping Load - Straight - ISO 14397-1† 9760 lb

Tipping Load - Full Turn - ISO 14397-1† 8225 lb

Operating Weight: Carriage and Tines^{^^} 12240 lb

Tipping Load - Straight† 7748 lb

80% of Tip: Firm and Level IEN474-3†† 5211 lb

Note (1) *Vary with bucket

Note (2) **Vary with tire

Note (3) ^Horizontal Pin Lock Coupler (HPL-V) or Vertical Pin Coupler (SSL), 0.95 m³ (1.2 yd³) general purpose bucket.

Note (4) ^^Horizontal Pin Lock Coupler (HPL-V) or Vertical Pin Coupler (SSL), class II carriage, 1220 mm (4 ft) tines (500 mm [20 in] load center).

Note (5) †Full compliance to ISO 14397-1 (2007) Sections 1 thru 6 (fork 500 mm [20 in] load center), which requires 2% verification between calculation and testing.

Note (6) ††Full compliance to EN474-3 and SAE J1197.

Note (7) #HPL-A weight, tipping and rated loads are within 1% of the HPL-V.

Note (8) Dimensions listed are for a machine configured with standard cab, heater, 20 km/h (12 mph), standard guarding, 80 kg (176 lb) operator, full fluids, SPT9EM 405/70 R18 tires and 0.95 m³ (1.2 yd³) general purpose bucket with bolt-on cutting edge or a class II fork carriage and tines (tire supplier variability can impact dimensions by 2%).

Note (9) Note: Goodyear POWERLOAD® tires can add up to approximately 140 kg (305 lb) to the full turn tip load and reduce vertical height by approximately 25 mm (1 in) compared to SPT9.

Length: Front Axle to Front of Coupler 3.5 ft

Tipping Load - Full Turn† 6514 lb

DIMENSIONS - WITH SSL COUPLER - APPROXIMATE

Height - Ground to Cab 8.08 ft

Height: Ground to Beacon** 8.67 ft

Height: Ground Axle Center** 1.58 ft

Height - Ground Clearance 1 ft

Length - Overall with Bucket 18.17 ft

Length: Rear Axle to Bumper 4.58 ft

Length: Hitch to Front Axle 3.58 ft

Length - WheelBase 7.08 ft

Clearance- Bucket at 45° 7.83 ft

Clearance:Load overHeight** 9.5 ft

Clearance- Level Bucket 9.92 ft

Height - BucketPin 10.67 ft

Height: Overall** 13.83 ft

Reach - Bucket at 45° 2.67 ft

Carry Height: Bucket Pin 1.17 ft

Dig Depth 0.25 ft

Width - Bucket 6.17 ft

Width - Tread Center 4.67 ft

Turning Radius - OverBucket 14.67 ft

Width - OverTires 6.07 ft

Turning Radius: Outside of Tires 12.92 ft

Turning Radius - Inside Tire 6.75 ft

Rack Angle at Full Lift	51°
Dump Angle at Full Lift	50°
Rack Angle at Carry	46°
Departure Angle - Degrees	30°
Articulation Angle - Degrees	39°
Operating Weight: Bucket[^]	12863 lb
Tipping Load – Straight – ISO 14397-1†	8613 lb
Tipping Load – Full Turn – ISO 14397-1†	7220 lb
Operating Weight: Carriage and Tines^{^^}	12434 lb
Tipping Load - Straight††	7359 lb
80% of Tip: Firm and Level IEN474-3††	4970 lb
Note (1)	*Vary with bucket
Note (2)	**Vary with tire
Note (3)	[^] Horizontal Pin Lock Coupler (HPL-V) or Vertical Pin Coupler (SSL), 0.95 m ³ (1.2 yd ³) general purpose bucket.

- Note (4)** ^Horizontal Pin Lock Coupler (HPL-V) or Vertical Pin Coupler (SSL), class II carriage, 1220 mm (4 ft) tines (500 mm [20 in] load center).
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- Note (9)** Note: Goodyear POWERLOAD® tires can add up to approximately 140 kg (305 lb) to the full turn tip load and reduce vertical height by approximately 25 mm (1 in) compared to SPT9.

Tipping Load - Full Turn† 2818 kg

Length: Front Axle to Front of Coupler 4.33 ft

SUSTAINABILITY

Recyclability 93%

906 STANDARD EQUIPMENT

ELECTRICAL

Product Link™
Service (Electronic Technician™)
Lights, roading, front halogen
Lights, rear stop and turn, LED
Cab mounted fuse panel
Battery disconnect switch
Battery, heavy duty, 12V, 90Ah and 1,000 CCA
Alternator, 100 amp sealed

HYDRAULICS

Motor, single drive with dedicated implement and steering pumps
Multi-function lift and tilt with loader arm float
Joystick, single lever, single auxiliary roller
Implement valve, pressure compensated
Hystat displacement pump, infinitely variable
Caterpillar HYDO™ Advanced 10 hydraulic oil
Coupler/pin on attachment ready
Demand cooling fan, hydraulically driven
Dead engine lower, lift valve, manual
Electro-hydraulic, fully proportional controls
Hydraulic pilot shut off switch, in cab

OPERATOR ENVIRONMENT

Cab

- Doors (2), fixed glass
- Wipers, front and rear, full front coverage
- Windshield, front single piece
- Window, rear heated
- Radio ready, speakers and wiring
- Air vents, (4) screen, (7) directional
- Heating, mechanical control unit
- Sun visor, solid, front full width
- Interior light (incandescent)

Seat, manual height adjustment, (cab) fabric with adjustable left arm rest, (canopy) vinyl

Joystick, seat mounted, standard multifunction

- FNR, auxiliary roller, speed range select, continuous flow, differential lock, horn
- Arm rest, padded right, multiple position vertical height

Display, analog and digital

- Gauges (2), hydraulic oil, engine coolant
- Digital with soft touch buttons – fuel level, speed range, speedometer, service hour meter, service/maintenance information, hydraulic and power train performance and aggressiveness settings, security passcode (multiple languages)

ROPS/FOPS certified canopy/cab

- 12V power outlets, interior/exterior
- Pedals, raised, foot, brake/inching, accelerator
- Lever, parking brake
- Cup holders (2)
- CB radio clip, phone holder
- Door release, internal (left and right)
- Hook, large, coat and hard hat
- Floormat, heavy duty, easy clean
- Mirrors, (2) external breakaway, (1) internal
- Operator station on isolation mounts
- Steering wheel, spinner knob, horn in center
- Seat belt, orange, retractable, 51 mm (2 in)
- Storage, personal (trays [3], seat pocket)
- Steering column, tilt adjusted
- Column mounted multi function control: lights, roading, wipers, self cancelling turn signals
- Quick coupler switch, in cab

OTHER

Scheduled Oil Sampling (S·O·SSM) ports, engine oil and hydraulic oil

Recovery hitch with pin

Paint, Electro-Coat primer, gloss topcoat

Machine lifting/tie down points

Lockable, fuel cap, HVAC filters, nose cone

Lockable main and side engine enclosures

Loader arm safety brace

Ground level easy access daily service points

Fenders, front and rear

POWER TRAIN

Fuel pump, priming (manual)/water separator/drain

Engine oil, ECO drain tap and hose

Engine, auto idle shutdown, hibernation mode

Drive shaft, sealed for life, universal joints

Coolant, extended life, -36° C (-33° F)

Closed circuit breather

Axles, heavy duty, frame mounted with outboard planetary reduction

Air cleaner, two stage filter, with in cab audio/visual indicator on display

Cat C2.8 engine

- Diesel particulate filter (Fit for Life) or muffler (Dependent on regional regulations.)

- Fuel, diesel, ultra low or low Sulphur (Dependent on regional regulations.)

- Hydrostatic transmission, two speed, with inching function, "shift on the go"

- Power train mode, hystat

Emissions compliant, two options (Dependent on regional regulations.)

- U.S. EPA Tier 4 Final and EU Stage V

- U.S. EPA Tier 3 and EU Stage IIIA equivalent

906 OPTIONAL EQUIPMENT

ELECTRICAL

Work tool wiring harness, (3) in cab switches

Push to start

Lighting packages, multiple; front, rear, engine bay (LED or HAL)

HYDRAULICS

Quick disconnect auxiliary hydraulics

Reversing fan

Ride Control or load check valves (Dependent on regional regulations.)

Connect under pressure and case drain

Caterpillar Bio HYDO Advanced hydraulic oil

Auxiliary flow, single standard (3) valve, single high flow (3) valve, dual high flow (4) valve

OPERATOR STATION

USB ports (2), interior

Sun visor, rear perforated

Storage, lockable box or lockable cooled box

Soft touch keypad options, 8 or 16 button

Secondary display, front or rear view camera

Seat packages; deluxe or premium

Seat belt options, multiple

Radio, FM or digital audio broadcast

Phone holder, spring loaded

Mirrors (2) electronically adjustable, heated external, plus lower parabolic mirror

Joystick, seat mounted, multifunction

Interior light, door activated

FNR, twin auxiliary roller, continuous flow, differential lock, horn

Doors, sliding windows (left and right)

Air Conditioning, automatic temperature control (ATC)

OTHER

Rotary sensors (snubbing, kickouts, parallel)

Couplers, vertical (SSL), horizontal (HPL-V, HPL-A)

POWER TRAIN

Power train mode, utility (includes keypad)

Hydrostatic transmission, 3-speed, "shift on the go", secondary steering and boosted brakes

Fuel pump, priming (Higher regulated countries), electric (Dependent on regional regulations.)

Creep and throttle lock function

Cold start – jacket water heater, bypass valve

Antifreeze, extended life coolant, -50° C (-58° F)