

# PRODUCT SPECIFICATIONS FOR 906



## ENGINE

<b>Maximum Gross Power</b>	74.7 HP
<b>Engine Model</b>	Cat C2.8*
<b>Maximum Engine Speed</b>	2550 rpm
<b>Maximum Gross Power - Rated Engine Speed</b>	2400 r/min
<b>Maximum Gross Power - SAE J1995</b>	74.7 HP
<b>Maximum Gross Power - ISO 14396</b>	74.3 HP
<b>Maximum Gross Power - ISO 14396 (metric)</b>	75.3 mhp
<b>Rated Net Power - Rated Engine Speed</b>	2400 r/min
<b>Rated Net Power - SAE J1349</b>	72.7 HP
<b>Rated Net Power - ISO 9249</b>	72.1 HP
<b>Rated Net Power - 2,400 rpm - ISO 9249 (metric)</b>	73.1 mhp
<b>Maximum Gross Torque - SAE J1995</b>	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 in<sup>3</sup>

**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 m<sup>3</sup> (1.0-2 yd<sup>3</sup>)

**Bucket Capacities - General Purpose** 0.80-1.35 m<sup>3</sup> (1.0-1.7 yd<sup>3</sup>)

**Bucket Capacities - Light Material** 1.25-1.55 m<sup>3</sup> (1.6-2 yd<sup>3</sup>)

<b>Multi-Purpose</b>	0.75-1.1 m <sup>3</sup> (1.0-1.4 yd <sup>3</sup> )
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<b>Note</b>	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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<b>Note (1)</b>	Bucket capacities stated include BOCE, in line with ISO 7546.
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## SERVICE REFILL CAPACITIES

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

<b>Front</b>	Fixed (standard) Locking Differential (optional)
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<b>Rear</b>	Fixed (standard) Locking Differential (optional)
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<b>Note</b>	Oscillation of $\pm 11$ degrees via hitch between front and rear frames.
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## STEERING

<b>Steering Articulation Angle - Each Direction</b>	39 °
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<b>Maximum Flow - Steering Pump</b>	12.3 gal/min
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<b>Maximum Working Pressure - Steering Pump</b>	3336 psi
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<b>Steering Cycle Times – (full left to full right) – at High Idle</b>	2.8 s
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<b>Number of Steering Wheel Turns - Full Left to Full Right or Full Right to Full Left</b>	3.25 turns or 4.00 turns
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## TRANSMISSION

<b>Forward and Reverse - Speed Range Creep#</b>	6 mile/h
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<b>Forward and Reverse - Speed Range 1*</b>	6 mile/h
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<b>Forward and Reverse - Speed Range 2** - High Speed</b>	10.5 mile/h
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<b>Forward and Reverse - Speed Range 2** - Standard</b>	12 mile/h
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<b>Forward and Reverse - Speed Range 3***</b>	25 mile/h
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<b>Note</b>	#Factory default shown, can be adjusted to any speed up to 19 km/h (12 mph).
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<b>Note (1)</b>	*Creep function not available in this gear or above.
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<b>Note (2)</b>	**Max speed dependent on model and configuration (standard vs. high speed transmission).
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<b>Note (3)</b>	***Reverse is 30 km/h (19 mph).
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## TIRES

<b>Tire Size - Standard</b>	*405/70 R18 SPT9
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<b>Tire Size - Optional</b>	405/70 R18 Powerloads
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**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

<b>Main Relief - 2nd Auxiliary (4th slice)</b>	3408 psi
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<b>Main Relief - 2nd Auxiliary (4th slice) - Flow</b>	12 gal/min
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<b>Hydraulic Cycle Time - Rackback</b>	2.2 s
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<b>Hydraulic Cycle Time - Lift</b>	5 s
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<b>Hydraulic Cycle Time - Dump</b>	1.6 s
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<b>Hydraulic Cycle Time - Float Down</b>	2.8 s
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<b>Note</b>	* 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#**

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

**Dump Angle at Full Lift** 45°

**Rack Angle at Carry** 51°

**Departure Angle - Degrees** 30°

**Articulation Angle - Degrees** 39°

**Operating Weight: Bucket<sup>^</sup>** 12632 lb

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

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

**Operating Weight: Carriage and Tines<sup>^^</sup>** 12240 lb

**Tipping Load - Straight†** 7748 lb

**80% of Tip: Firm and Level EN474-3††** 5211 lb

**Note (1)** \*Vary with bucket

**Note (2)** \*\*Vary with tire

**Note (3)** <sup>^</sup>Horizontal Pin Lock Coupler (HPL-V) or Vertical Pin Coupler (SSL), 0.95 m<sup>3</sup> (1.2 yd<sup>3</sup>) general purpose bucket.

**Note (4)** <sup>^^</sup>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 m<sup>3</sup> (1.2 yd<sup>3</sup>) 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 - Wheel Base** 7.08 ft

**Clearance - Bucket at 45°** 7.83 ft

**Clearance: Load over Height\*\*** 9.5 ft

**Clearance - Level Bucket** 9.92 ft

**Height - Bucket Pin** 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 - Over Bucket** 14.67 ft

**Width - Over Tires** 6.07 ft

**Turning Radius: Outside of Tires** 12.92 ft

**Turning Radius - Inside Tire** 6.75 ft

<b>Rack Angle at Full Lift</b>	51°
<b>Dump Angle at Full Lift</b>	50°
<b>Rack Angle at Carry</b>	46°
<b>Departure Angle - Degrees</b>	30°
<b>Articulation Angle - Degrees</b>	39°
<b>Operating Weight: Bucket<sup>^</sup></b>	12863 lb
<b>Tipping Load – Straight – ISO 14397-1</b>	8613 lb
<b>Tipping Load – Full Turn – ISO 14397-1†</b>	7220 lb
<b>Operating Weight: Carriage and Tines<sup>^^</sup></b>	12434 lb
<b>Tipping Load - Straight†</b>	7359 lb
<b>80% of Tip: Firm and Level EN474-3††</b>	4970 lb
<b>Note (1)</b>	*Vary with bucket
<b>Note (2)</b>	**Vary with tire
<b>Note (3)</b>	<sup>^</sup> Horizontal Pin Lock Coupler (HPL-V) or Vertical Pin Coupler (SSL), 0.95 m <sup>3</sup> (1.2 yd <sup>3</sup> ) general purpose bucket.



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·S<sup>SM</sup>) 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)