

Product Specifications For 906



Engine

Maximum Gross Power	60 kW
Engine Model	Cat C2.8*
Maximum Engine Speed	2550 rpm
Maximum Gross Power - Rated Engine Speed	2400 r/min
Maximum Gross Power - SAE J1995	60 kW
Maximum Gross Power - ISO 14396	55.4 kW
Maximum Gross Power - ISO 14396 (metric)	75.3 mhp
Rated Net Power - Rated Engine Speed	2400 r/min
Rated Net Power - SAE J1349	54.4 kW
Rated Net Power - ISO 9249	53.8 kW
Rated Net Power - 2,400 rpm - ISO 9249 (metric)	73.1 mhp
Maximum Gross Torque - SAE J1995	301 N·m
Maximum Gross Torque - ISO 14396	300 N·m
Maximum Net Torque - SAE J1349	296 N·m
Maximum Net Torque - ISO 9249	295 N·m
Displacement	2.8 l

Bore	90 mm
Stroke	110 mm
Note	*Equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
Note (1)	Maximum gross and net torque measured at 1,600 rpm.
Note (2)	Net power ratings are tested at the reference conditions for the specified standard.
Note (3)	Net power advertised is the power available at the flywheel.

Weights

Operating Weight	5730 kg
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Buckets

Bucket Capacities	0.75-1.55 m ³ (1.0-2 yd ³)
Bucket Capacities - General Purpose	0.80-1.35 m ³ (1.0-1.7 yd ³)
Bucket Capacities - Light Material	1.25-1.55 m ³ (1.6-2 yd ³)
Multi-Purpose	0.75-1.1 m ³ (1.0-1.4 yd ³)
Note	All capacities are applicable for each model. 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.

Note (1)	Bucket capacities stated include BOCE, in line with ISO 7546.
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Service Refill Capacities

Fuel Tank	70 l
Cooling System	12 l

Engine Crankcase	8.8 l
Axles - Front Center Differential	8.8 l
Axles - Rear Center Differential	8.8 l
Hydraulic System - Including Tank	67.5 l
Hydraulic Tank	44.6 l
Transmission	2.4 l
Note	No Diesel Exhaust Fluid (DEF) fluid needed on this size engine.

Axles

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

Steering

Steering Articulation Angle - Each Direction	39 °
Maximum Flow - Steering Pump	46.7 L/min
Maximum Working Pressure - Steering Pump	23000 kPa
Steering Cycle Times – (full left to full right) – at High Idle	2.8 s
Number of Steering Wheel Turns - Full Left to Full Right or Full Right to Full Left	3.25 turns or 4.00 turns

Transmission

Forward and Reverse - Speed Range	10 km/h
Creep#	

Forward and Reverse - Speed Range 1*	10 km/h
Forward and Reverse - Speed Range 2** - High Speed	17 km/h
Forward and Reverse - Speed Range 2** - Standard	20 km/h
Forward and Reverse - Speed Range 3***	40 km/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.
Note (2)	The declared dynamic operator sound pressure levels per ISO 6396:2008*, when properly installed and maintained, is 71 dB(A).
Note (3)	*Measurements were conducted with the cab doors and windows closed.
Note (4)	The labelled sound power level for the CE marked configurations when measured according to the test procedure and conditions specified in 2000/14/EC is 101 dB(A). 99 dB(A) Low Sound – Option available.

Loader Hydraulic System

Main Relief - 1st Auxiliary (3rd slice)	23500 kPa
Main Relief - 1st Auxiliary (3rd slice) - Standard Flow*	80 L/min
Main Relief - 1st Auxiliary (3rd slice) - High Flow*	120 L/min
Main Relief - 2nd Auxiliary (4th slice)	23500 kPa

Main Relief - 2nd Auxiliary (4th slice) - Flow	45 L/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**	2468 mm
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Height: Ground to Beacon**	2651 mm
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Height: Ground Axle Center**	480 mm
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Height: Ground Clearance**	300 mm
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Length: Overall*	5369 mm
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Length: Rear Axle to Bumper	1391 mm
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Length: Hitch to Front Axle	1085 mm
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Length: Wheel Base	2170 mm
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Clearance: Bucket at 45° * 2499 mm

Clearance: Load over Height** 2900 mm

Clearance: Level Bucket** 3038 mm

Height: Bucket Pin** 3244 mm

Height: Overall** 4115 mm

Reach: Bucket at 45° * 725 mm

Carry Height: Bucket Pin 311 mm

Dig Depth** 77 mm

Width: Bucket 1890 mm

Width: Tread Center 1420 mm

Turning Radius: Over Bucket 4406 mm

Width: Over Tires 1840 mm

Turning Radius: Outside of Tires 4007 mm

Turning Radius: Inside of Tires 2128 mm

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[^]	5730 kg
Tipping Load - Straight - ISO 14397-1	4427 kg
Tipping Load - Full Turn - ISO 14397-1†	3701 kg
Operating Weight: Carriage and Tines^{^^}	5552 kg
Tipping Load - Straight†	3514 kg
80% of Tip: Firm and Level EN474-3††	2364 kg
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).

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 ³ (1.2 yd ³) general purpose bucket with bolt-on cutting edge or a class II fork carriage and tines (tire supplier variability can impact dimensions by 2%).

Dimensions - With SSL Coupler - Approximate

Height - Ground to Cab	2468 mm
Height: Ground to Beacon**	2651 mm
Height: Ground Axle Center**	480 mm
Height - Ground Clearance	300 mm
Length - Overall with Bucket	5527 mm
Length: Rear Axle to Bumper	1391 mm
Length: Hitch to Front Axle	1085 mm
Length - Wheel Base	2170 mm
Clearance - Bucket at 45°	2385 mm

Clearance: Load over Height**	2900 mm
Clearance - Level Bucket	3030 mm
Height - Bucket Pin	3244 mm
Height: Overall**	4205 mm
Reach - Bucket at 45°	822 mm
Carry Height: Bucket Pin	335 mm
Dig Depth	85 mm
Width - Bucket	1890 mm
Width - Tread Center	1420 mm
Turning Radius - Over Bucket	4481 mm
Width - Over Tires	1840 mm
Turning Radius: Outside of Tires	4007 mm
Turning Radius - Inside Tire	2128 mm
Rack Angle at Full Lift	50°
Dump Angle at Full Lift	45°
Rack Angle at Carry	46°

Departure Angle - Degrees	30°
Articulation Angle - Degrees	39°
Operating Weight: Bucket[^]	5835 kg
Tipping Load – Straight – ISO 14397-1	3907 kg
Tipping Load – Full Turn – ISO 14397-1†	3248 kg
Operating Weight: Carriage and Tines^{^^}	5640 kg
Tipping Load - Straight†	3338 kg
80% of Tip: Firm and Level EN474-3††	2254 kg
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.
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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%).

906 Standard Equipment

POWER TRAIN

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

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

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

Axles, heavy duty, frame mounted with outboard planetary reduction

Closed circuit breather

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

Drive shaft, sealed for life, universal joints

Engine, auto idle shutdown, hibernation mode

Engine oil, ECO drain tap and hose

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

HYDRAULICS

Hystat displacement pump, infinitely variable

Implement valve, pressure compensated

Joystick, single lever, single auxiliary roller

Multi-function lift and tilt with loader arm float

Motor, single drive with dedicated implement and steering pumps

ELECTRICAL

Alternator, 100 amp sealed

Battery, heavy duty, 12V, 90Ah and 1,000 CCA

Battery disconnect switch

Cab mounted fuse panel

Lights, rear stop and turn, LED

Lights, roading, front halogen

Service (Electronic Technician™)

Product Link™

OPERATOR ENVIRONMENT

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

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)

Joystick, seat mounted, standard multifunction

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

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

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)

OTHER

Fenders, front and rear

Ground level easy access daily service points

Loader arm safety brace

Lockable main and side engine enclosures

Lockable, fuel cap, HVAC filters, nose cone

Machine lifting/tie down points

Paint, Electro-Coat primer, gloss topcoat

Recovery hitch with pin

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

906 Optional Equipment

POWER TRAIN

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

Cold start – jacket water heater, bypass valve

Creep and throttle lock function

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

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

Power train mode, utility (includes keypad)

ELECTRICAL

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

Push to start

Work tool wiring harness, (3) in cab switches

HYDRAULICS

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

Caterpillar Bio HYDO Advanced hydraulic oil

Connect under pressure and case drain

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

Reversing fan

Quick disconnect auxiliary hydraulics

OPERATOR STATION

Air Conditioning, automatic temperature control (ATC)

Doors, sliding windows (left and right)

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

Interior light, door activated

Joystick, seat mounted, multifunction

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

Phone holder, spring loaded

Radio, FM or digital audio broadcast

Seat belt options, multiple

Seat packages; deluxe or premium

Secondary display, front or rear view camera

Soft touch keypad options, 8 or 16 button

Storage, lockable box or lockable cooled box

Sun visor, rear perforated

USB ports (2), interior

OTHER

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

Rotary sensors (snubbing, kickouts, parallel)