

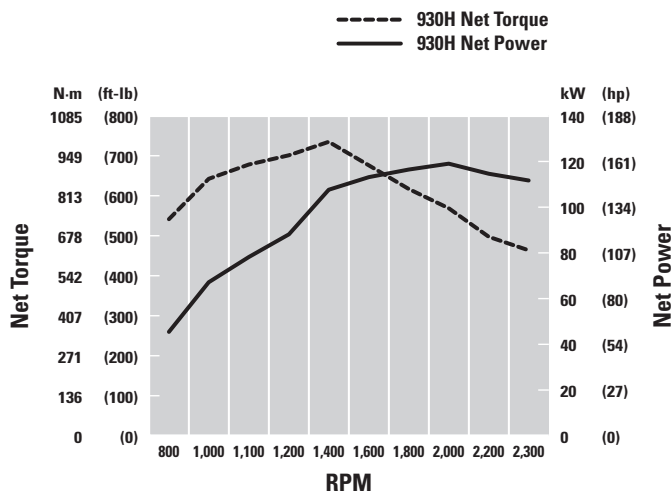
# 930H Wheel Loader Specifications

## Engine

Rated net power @ 2,300 rpm	111 kW	149 hp
Model	Cat® C6.6	
SAE J1349	111 kW	149 hp
ISO 9249 (1997)	112 kW	150 hp
EEC 80/1269	112 kW	150 hp
Max. net power @ 2,000 rpm	119 kW	160 hp
SAE J1349	119 kW	160 hp
ISO 9249 (1997)	120 kW	161 hp
EEC 80/1269	120 kW	161 hp
Bore	105 mm	4.13 in
Stroke	127 mm	5 in
Displacement	6.6 L	403 in <sup>3</sup>
Net torque	727 N·m	536 ft-lb
Peak torque	742 N·m	547 ft-lb

- Net Power ratings are tested at the reference conditions for the specified standard.
- Net power shown is the power available at the flywheel when the engine is equipped with alternator, air cleaner, muffler and fan at minimum speed.
- No derating required up to 3000 m (9,843 ft) altitude. Auto derate protects hydraulic and transmission systems.
- When the fan is at maximum speed, Rated Net Power is 97 kW (130 hp) and Maximum Net Power is 106 kW (142 hp) at the flywheel per the SAE reference conditions.
- The Caterpillar® C6.6 engine meets Tier 3 off-highway emission regulations.

## Engine Torque



## Buckets

Bucket capacities	2.1 m <sup>3</sup> - 5.0 m <sup>3</sup>	2.6 yd <sup>3</sup> - 6.5 yd <sup>3</sup>
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## Weights

- |                  |           |           |
|------------------|-----------|-----------|
| Operating weight | 13 029 kg | 28,725 lb |
|------------------|-----------|-----------|
- Specifications shown are for 930H with optional counterweight, standard lubricants, full fuel tank, deluxe cab, Limited Slip rear axle with heavy duty brakes, additional guarding, 2.1 m<sup>3</sup> (2.6 yd<sup>3</sup>) bucket with bolt-on cutting edge, 80 kg (176 lb) operator and 20.5 R25 radial (L-3) XHA tires.

## Steering

Steering articulation	40°	40°
Minimum turning radius (over tire)	5257 mm	207 in
Steering angle, each direction	40°	40°
Steering cylinders, two, bore	70 mm	2.75 in
Hydraulic output at 2,300 engine rpm and 6900 kPa (1,000 psi)	70 L/min	17.6 gal/min
Maximum working pressure	24 130 kPa	3,500 psi

## Loader Hydraulic System

Output at 2,300 engine rpm and 6900 kPa (1,000 psi) with SAE 10W oil at 65° C (150° F)	220 L/min	58 gal/min
Hydraulic cycle time	9.5 Seconds	
Pump flow – implement pump	220 L/min	58 gal/min
Relief pressure – implement pump	258.9 bar	3,755 psi
Maximum working pressure	25 900 kPa	3,755 psi
Hydraulic cycle time	9.5 Seconds	
Raise	5 Seconds	
Dump	1.7 Seconds	
Lower, empty, float down	2.8 Seconds	
Total	9.5 Seconds	
Lift cylinders, double acting:		
Bore	114.3 mm	4.5 in
Stroke	777 mm	30.6 in
Tilt cylinder, double acting:		
Bore	152.4 mm	6 in
Stroke	939 mm	37 in

## Service Refill Capacities

Fuel tank	225 L	59.4 gal
Cooling system	40 L	10.6 gal
Crankcase	15 L	4.0 gal
Transmission	34.5 L	9.1 gal
Differentials and final drives:		
Front	26 L	6.9 gal
Rear	25 L	6.6 gal
Hydraulic system (including tank)	148 L	39 gal
Hydraulic tank	70 L	18.5 gal

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## Transmission

Standard transmission		38.3 km/h	23.8 mph
max travel speeds			
Forward	1	7.3 km/h	4.5 mph
	2	12.3 km/h	7.6 mph
	3	24.1 km/h	15 mph
	4	38.3 km/h	23.8 mph
Reverse	1	7.3 km/h	4.5 mph
	2	12.3 km/h	7.6 mph
	3	24.1 km/h	15 mph

## Tires

Size	20.5 R25 L3 XHA	
Tread width	2570 mm	8 ft 5 in

- Choice of:
  - 17.5-25, 12PR (L-2)
  - 17.5-25, 12PR (L-3)
  - 17.5 R25, radial (L-2)
  - 17.5 R25, radial (L-3)
  - 20.5-25, 12PR (L-2)
  - 20.5-25, 12PR (L-3)
  - 20.5 R25, radial (L-2/L-3)
  - 600/65 R25, radial (L-3)
- Other tire choices are available, contact your Cat® Dealer for details.
- In certain applications, the loader's productive capabilities may exceed the tire's tonnes-km/h (ton-mph) capabilities. Caterpillar recommends that you consult a tire supplier to evaluate all conditions before selecting a tire model.

## Cab

ROPS	SAE J1040 MAY94, ISO 3471-1994	
FOPS	SAE J/ISO 3449 APR98 Level II, ISO 3449 1992 Level II	

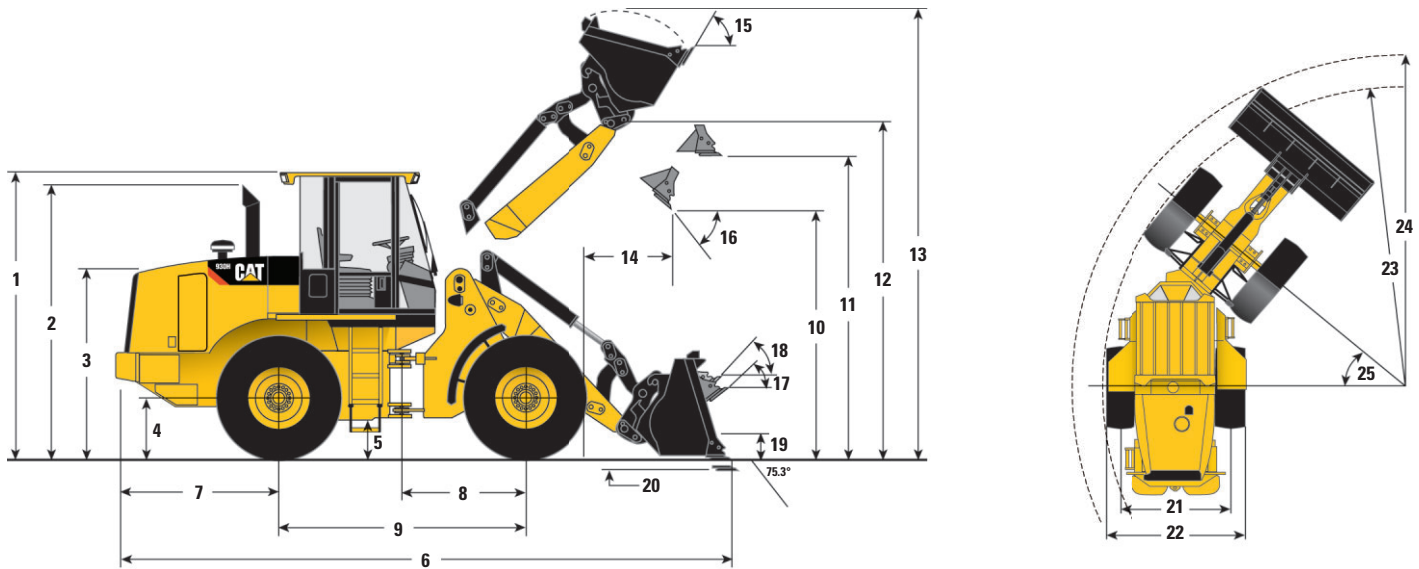
- Caterpillar cab and Rollover Protective Structure (ROPS) are standard in North America and Europe.
- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed as per work cycle procedures specified in ANSI/SAE J1166 May 90, results in operator sound exposure Leq (equivalent sound pressure level) of 74 dB(A).

## Operating Specifications

Static tipping load (full turn)	8310 kg	18,321 lb
Reach – full lift/45 degree dump angle	1070 mm	3 ft 6 in
Dump clearance – full lift/45 degree dump angle	2927 mm	9 ft 7 in
Articulation angle	40°	40°

## Dimensions with Bucket

All dimensions are approximate. Dimensions may vary with bucket. Refer to Operating Specifications.



	Standard VersaLink		High Lift VersaLink	
1	Height to top of ROPS/FOPS	3278 mm (10 ft 9 in)	3278 mm (10 ft 9 in)	3278 mm (10 ft 9 in)
2	Height to top of exhaust stack	3205 mm (10 ft 6 in)	3205 mm (10 ft 6 in)	3205 mm (10 ft 6 in)
3	Height to top of hood	2234 mm (7 ft 4 in)	2234 mm (7 ft 4 in)	2234 mm (7 ft 4 in)
4	Height to center of axle	685 mm (2 ft 3 in)	685 mm (2 ft 3 in)	685 mm (2 ft 3 in)
5	Ground clearance	411 mm (1 ft 4 in)	411 mm (1 ft 4 in)	411 mm (1 ft 4 in)
6	Overall length	7601 mm (24 ft 11 in)	8080 mm (26 ft 6 in)	8080 mm (26 ft 6 in)
7	Length – rear axle to bumper	1988 mm (6 ft 6 in)	1988 mm (6 ft 6 in)	1988 mm (6 ft 6 in)
8	Center line of front axle to hitch	1450 mm (4 ft 9 in)	1450 mm (4 ft 9 in)	1450 mm (4 ft 9 in)
9	Wheel base length	2900 mm (9 ft 6 in)	2900 mm (9 ft 6 in)	2900 mm (9 ft 6 in)
10	Dump clearance at maximum lift and 45° dump	2833 mm (9 ft 4 in)	3333 mm (10 ft 11 in)	3333 mm (10 ft 11 in)
11	Bucket clearance at maximum lift and level	3667 mm (12 ft 0 in)	4169 mm (13 ft 8 in)	4169 mm (13 ft 8 in)
12	Bucket pin height at maximum lift	4049 mm (13 ft 3 in)	4549 mm (14 ft 11 in)	4549 mm (14 ft 11 in)
13	Overall height – bucket raised	5303 mm (17 ft 5 in)	5803 mm (19 ft 0 in)	5803 mm (19 ft 0 in)
14	Reach at maximum lift and 45° dump	934 mm (3 ft 1 in)	934 mm (3 ft 1 in)	934 mm (3 ft 1 in)
15	Rack back angle at maximum lift	60°	62°	62°
16	Dump angle at maximum lift	45°	45°	45°
17	Rack back angle at ground	51°	52°	52°
18	Rack back angle at carry	53°	57°	57°
19	Carry height	428 mm (1 ft 5 in)	577 mm (1 ft 11 in)	577 mm (1 ft 11 in)
20	Digging depth	201 mm (8 in)	216 mm (9 in)	216 mm (9 in)

Dimensions listed are for 930H with 2.1 m<sup>3</sup> (2.7 yd<sup>3</sup>) hook-on bucket with bolt-on cutting edge, cab with A/C, optional counterweight, limited slip axles, heavy duty rear brakes, additional guarding, sound suppression, 80 kg (176 lb) operator and Michelin 20.5 R25 L3 XHA tires.

	20.5 R25 (L-3) Tires		20.5-25 12PR (L-2) Tires		17.5-25 12PR L-2 Tires	
21	Width at tread center	1950 mm (6 ft 5 in)	1950 mm (6 ft 5 in)	1950 mm (6 ft 5 in)	1950 mm (6 ft 5 in)	1950 mm (6 ft 5 in)
22	Overall width over tires	2570 mm (8 ft 5 in)	2504 mm (8 ft 3 in)	2504 mm (8 ft 3 in)	2407 mm (7 ft 11 in)	2407 mm (7 ft 11 in)
23	Minimum turning radius over tires	5275 mm (17 ft 4 in)	5236 mm (17 ft 2 in)	5236 mm (17 ft 2 in)	5186 mm (17 ft 0 in)	5186 mm (17 ft 0 in)
24	Minimum turning radius over bucket at ground level	5918 mm (19 ft 5 in)	5910 mm (19 ft 5 in)	5910 mm (19 ft 5 in)	5933 mm (19 ft 6 in)	5933 mm (19 ft 6 in)
25	Steering angle – left/right	40°	40°	40°	40°	40°
	Change in vertical dimension	no change	no change	+21 mm (+0.4 in)	-44 mm (-2 in)	-44 mm (-2 in)