CAT	I	20	H	ta	E
	S	Ī	0	R	E.

41105 RAINTREE CT., MURRIETA, CA 92562 TEMECULA Ph: 951-696-1063 Fax: 951-696-9463

Customer: 0052746

**130 S MAIN STREET** 

CITY OF LAKE ELSINORE

**Attention: Account Payable** 

LAKE ELSINORE, CA 92530-4109

Bill to:

**Sales Quote** 

### **Quote Q12808**

Invoice Amount: \$104,459.59

Invoice Date: 07/12/2019 Fri 05:51 PM

> Jobsite: 10- CITY OF LAKE Contact: FRANCISCO DIAZ Phone: 951 453 7901 521 N. LANGSTAFF LAKE ELSINORE CA 92530 FRANCISCO 951-830-0406

<b>,</b>	DAN CHADD	•	TOM CALLUS TOM CALLUS QUOTE	
QTY DESCR			PRICE	EXTENDED
Sale Ite	ms			
2.0	999-1111 QUOTE ITEM SOURCE WELL CONTRACT # 041719-TER. PRICING GENIE TZ-5 HONDA 5.5 CHARGING SYSTEM	0 HYBRID W	43,739.95 /	87,479.90
	WHEN OPERATED IN CALIFORNIA, ANY OFF-ROAD HEAVY- DUTY DIESEL VEHICLE, ALTERNATIVE-DIESEL VEHICLE, OFF-ROAD DIESEL VEHICLE, OR PORTABLE DIESEL ENGINE MAY BE SUBJECT TO THE CALIFORNIA AIR RESOURCES BOARD'S REGULATION TO REDUCE PARTICULATE MATTER AND CRITERIA POLLUTANT EMISSIONS FRON IN-USE HEAVY-DUTY DIESEL VEHICLES, IN-USE OFF-ROAD DIESEL VEHICLE REGULATION, OR AIRBORNE TOXIC CONTROL MEASURE FOR DIESEL PARTICULATE MATTER FROM PORTABLE ENGINES RATED AT 50 HORSEPOWER AND GREATER. IT THEREFORE COULD BE SUBJECT TO RETROFIT, EXHAUST RETROFIT, OR ACCELERATED TURNOVER REQUIREMENTS TO REDUCE EMISSIONS OF AIR POLLUTANTS. FOR MORE INFORMATION, PLEASE VISIT THE CALIFORNIA AIR RESOURCES BOARD WEBSITES AT HTTPS://WWW.ARB.CA.GOV/DIESELTRUCK, HTTPS://WWW.ARB.CA.GOV/MSPROG/ORDIESEL/ORDIESEL.HT M			

Μ \*\*\*\*\*\*

#### **Miscellaneous Items**

	INN CAT Rental	Sales C Quote Q12	•		
u u	S T O R E.	Invoice Amount:	\$104,459.5	59	
	REE CT., MURRIETA, CA 92562 h: 951-696-1063 Fax: 951-696-9463	Invoice Date:	07/12/2019	9 Fri 05:51 PM	
Bill to:	Customer: 0052746 CITY OF LAKE ELSINORE Attention: Account Payable 130 S MAIN STREET LAKE ELSINORE, CA 92530-4109		Contact: FR Phone: 95 521 N. LAN LAKE ELSI		
Signed By: Order By:	DAN CHADD		•	TOM CALLUS TOM CALLUS QUOTE	
QTY DES	CRIPTION			PRICE	EXTENDED
2 FREI	ellaneous Items GHT 5% County 0.5% Total Tax: 7.75%			5,100.00 each	10,200.00 6,779.69
		Tota	al:	104,4	59.59



**CARB REGULATIONS** When operated in California, any on-road heavy-duty diesel vehicle, alternative-diesel vehicle, off-road diesel vehicle, or portable diesel engine may be subject to the California Air Resources Board's Regulation to Reduce Particulate Matter and Criteria Pollutant Emissions from In-Use Heavy-Duty Diesel Vehicles, In-Use Off-Road Diesel Vehicle Regulation, or Airborne Toxic Control Measure For Diesel Particulate Matter From Portable Engines Rated At 50 Horsepower And Greater. It therefore could be subject to retrofit, exhaust retrofit, or accelerated turnover requirements to reduce emissions of air pollutants. For more information, please visit the California Air Resources Board websites at https://www.arb.ca.gov/dieseltruck, https://www.arb.ca.gov/msprog/ordiesel/ordiesel.htm, or https://www.arb.ca.gov/portable/portable.htm.

The undersigned warrants, represents, and agrees on behalf of the customer ("Customer"): (1) that the undersigned has authority to contract for Customer; (2) that the lease of the equipment listed above ("Equipment") by Quinn Company, Quinn Company dba Quinn Power Systems and Quinn Rental Services or by Quinn Lift (collectively, "Quinn") to Customer shall be subject to all of the terms and conditions set forth in this Rental Agreement (this "Agreement"); (3) that I have read and understand all said terms and conditions; (4) that I have the right to make a pre-delivery inspection and have informed Quinn of any damage or deficiency that may exist; (5) that I understand that air quality regulations may affect the operation and use of Equipment and I agree to all requirements stated in Additional Terms and Conditions, paragraph entitled "Air Quality Requirements for Equipment", and (6) that by executing this Agreement I specifically agree to all of the terms ond conditions of this Agreement, including the Additional Terms and Conditions attached hereto.

#### AN ADDITIONAL 14% FEE WILL APPEAR ON FINAL INVOICE UNLESS FIRE, THEFT, VANDALISM WAIVER IS REJECTED. REJECTION OF THIS WAIVER REQUIRES CUSTOMER TO INITIAL BELOW AND PROVIDE PROOF OF APPLICABLE INSURANCE

#### ( ) REJECT - INITIAL AND PROVIDE INSURANCE CERTIFICATE

AGREED TO:						DATE:	
_	(Signature)	(	Printed Name)	(Title)			-
DATE OUT:	HRS OUT:	DATE IN:	HRS IN:	RETURNED BY:			_
IMPORTANT! PLEASE READ THE ADDITIONAL TERMS AND CONDITIONS ATTACHED HERETO BEFORE SIGNING							
Printed on Tues	day, September 10, 2019 4:37:30 PM by TOMC	ALLUS		Q	12808	Page 2 of 2	



# **Trailer-Mounted Z-Booms** TZ<sup>™</sup>-50

# Specifications

MODEL	TZ-50	
Measurements	US	Metric
Working height*	55 ft 6 in	16.92 m
Platform height	49 ft 6 in	15.09 m
Entry height	1 ft 8 in	.51 m
Horizontal reach	29 ft 2 in	8.89 m
Clear outreach	23 ft 1 in	7.04 m
Up and over clearance	22 ft	6.71 m
A Platform length	2 ft 2.8 in	.68 m
A Platform width	3 ft 8 in	1.12 m
🛕 Height - stowed	6 ft 10 in	2.08 m
🛕 Length - stowed	23 ft 6 in	7.16 m
🛕 Width - stowed	5 ft 6 in	1.68 m
🛕 Ground clearance - center	10 in	.25 m
🛕 Length - outrigger footprint	14 ft 4 in	4.37 m
🛕 Width - outrigger footprint	14 ft 4 in	4.37 m

#### Productivity

Lift capacity (ANSI, CSA) - standard	500 lbs	227 kg
Lift capacity (ANSI, CSA) - rotating platform	500 lbs	227 kg
Lift capacity (CE/AUS) - standard	440 lbs	200 kg
Lift capacity (CE/AUS ) - rotating platform	440 lbs	200 kg
Jib boom	4 ft 1 in	1.25 m
Jib working range	135°	
Self leveling platform	2.5° standard	
Platform rotation option	160° hydraulic	
AC power to platform	standard	
Turntable rotation	359° non-continuous	
Outrigger leveling capability	11°	
Drive speed	0.85 mph	1.37 km/h
Gradeability**	20%	
Towing speed rate	60 mph	97 km/h
Tongue weight - ANSI, CSA	400 lbs	181 kg
Tongue weight - CE	220 lbs	100 kg
Surge and parking brakes	standard	
Controls	variable speed systen	n
Tires - ANSI, CSA	ST 225/75 R15	
Tires - CE	215 R14C	
Coupler	combination hitch	

#### Power

Power source - standard	24V DC (four 6V 225	Ah batteries)
Power source - drive option	24V DC (four 6V 244 Ah batteries)	
Power source - option	Hybrid DC/Gas Honda 5.5 hp (4.1 kW)	
Fuel tank capacity	.95 gal	3.6 L
Hydraulic tank capacity	4.75 gal	18 L
Hydraulic system capacity	8.0 gal	30 L

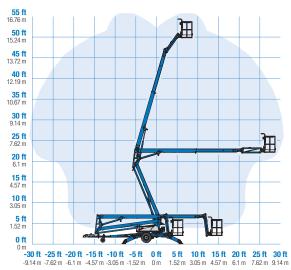
#### Weight\*\*\*

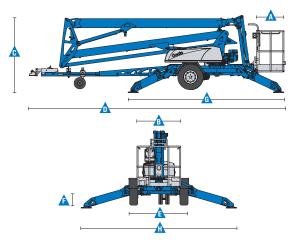
ANSI, CSA, Australia	4,400 lbs	1,996 kg
CE	4,475 lbs	2,030 kg

Standards Compliance

ANSI A92.2, CSA C225, EN 280, AS 1418.10

#### Range Of Motion TZ-50





\* The metric equivalent of working height adds 2 m to platform height.
 U.S. adds 6 ft to platform height.
 \*\* Gradeability applies to driving on slopes. See operator's manual for details regarding slope ratings.
 \*\*\* Weight will vary depending on options and/or country standards.



# Trailer-Mounted Z-Booms

Features

#### **Standard Features**

#### **Measurements**

- 55 ft 6 in (17.09 m) working height
- 29 ft 2 in (8.89 m) horizontal reach
- Up to 500 lbs (227 kg) lift capacity

#### Productivity

- Industry leading working envelope
- Extension boom
- Self-leveling platform
- 4 ft jib with 135° working range
- AC wiring to platform
- Hydraulic outriggers
- Automatic 11° leveling system
- Outrigger interlocks
- Mechanical parking brake
- Hydraulic surge brakes
- Adjustable hitch with coupler lever lock
- Dual jockey wheels
- 359° non-continuous turntable rotation
- Easy to access batteries
- Hour meter
- Tilt alarm / sensor
- Illuminated outrigger indicators
- · Highway safety chains with snap hook
- LED brake lights (ANSI, CSA)

#### Power

• 24V DC power source (four 6V 225 Ah batteries)

#### Configurations

TZ<sup>™</sup>-50

#### Platform Options

- Aluminum 26.8 x 44 in (.68 x 1.12 m)
- 160° hydraulic platform rotation

#### **Power Options**

- 24V DC power source
- Hybrid Honda 5.5 Hp (4.1 Kw) 45 amp charging system

#### Drive

- Drive and set option (ANSI, CSA, AUS)
- Drive only (CE)

#### **Coupler Options**

#### Adjustable hitch

- 2 in (5.08 cm) ball coupler
- 2 <sup>5</sup>/<sub>16</sub> in (5.87 cm) ball coupler
- 2  $\frac{1}{2}$  in (6.53 cm) I.D. pintle ring coupler
- Clevis coupler

#### **Tire Options**

- ST 225/75 R15 tires (ANSI, CSA)
- 215 R14C tires (CE)

#### **Options & Accessories**

#### Productivity

- 160° hydraulic platform rotation
- Drive and set option
- Wheel chocks
- Fluorescent tube caddy
- Full size spare tire
- Flashing beacon
- Non-marking outrigger footpads
- Battery charge indicator (BCI)
- Tool tray
- Horn
- High capacity battery
- Ladder option (CE and AUS only)

#### Power

• Hybrid Honda 5.5 Hp (4.1 Kw) 45 amp charging system option

#### **Genie United States**

6464 185th Ave. NE Redmond, WA 98052 Telephone +1 (425) 881-1800 Toll Free in USA/Canada +1 (800)-536-1800 Fax +1 (425) 883-3475





Effective Date: January, 2017. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the appropriate Operator's Manual for unipment or to otherwise act irresponsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and we make no other warranty, express or implied. Products and services listed may be trademarks, service marks or trade names of Terex Corporation and/or their subsidiaries in the USA and many other countries. Terex, Genie and AWP are registered trademarks of Terex Corporation or its subsidiaries. © 2017 Terex Corporation.

**Distributed By:** 





Quote 134468-01

July 10, 2019

CITY OF LAKE ELSINORE 130 S MAIN STREET LAKE ELSINORE California 92530-4109

Attention: Francisco

Dear Sir,

We would like to thank you for your interest in our company and our products, and are pleased to quote the following for your consideration.

#### SOURCEWELL #032515-CAT

#### CATERPILLAR INC. Model: 938M Wheel Loader

STOCK NUMBER: NS0012264

SERIAL NUMBER: 0J3R07716

YEAR: 2019

We wish to thank you for the opportunity of quoting on your equipment needs. This quotation is valid for 30 days, after which time we reserve the right to re-quote. If there are any questions, please do not hesitate to contact me.

Sincerely,

Justin Usary Machine Sales Representative

#### CATERPILLAR INC. Model: 938M Wheel Loader

#### STANDARD EQUIPMENT

#### POWERTRAIN

Axle seal guards Auto Idle shut down feature Cat C7.1ACERT engine -Power Modes (Standard and Performance) -Power by Range (High Power in Range 4) -Tier 4 Final/Stage IV compliant -Turbocharged and aftercooled -Filtered crankcase breather -Diesel particulate filter -Selective Catalyst Reduction Coolant protection to -34C (-29F) Differential lock in front axle Dry type air cleaner Enclosed wet disc full hydraulic brakes Fuel priming pump, automatic Fuel water separator

#### **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) in Fork Mode

#### 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 Halogen work lights front and rear, LED

#### **OPERATOR ENVIRONMENT**

75 mm (3 in) retractable seatbelt Automatic temperature control Cab, enclosed ROPS/FOPS pressurized Hydraulically driven demand cooling fan Hydrostatic transmission with electronic control -Operator Modes (Default, TC, Hystat and Ice) -Directional Shift Agressiveness (Fast, Medium, Slow) -Rimpull control, adjust wheel torque -Creeper control, adjust ground speed Lubed for life driveshafts Parking brake, electric Single plane cooling package wide 6 fins per inch density S-O-S port,engine,coolant,transmission oil

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

rear stop and turn lights Heavy duty gear reduction starter Product Link PRO w/3 year subscription Remote jump start post Resettable main and critical function breakers Roading lights front and rear

Interior cab lighting, door and dome Interior rearview mirrors (2) Lunch box storage

#### Quinn Group

and sound suppressed Cup holders External heated mirrors with lower parabolic Ground level cab door release Gauges -Digital hour meter, odometer and tachometer -Digital ground speedometer and direction indicator -Engine coolant temperature gauge -Fuel and Diesel Exhaust Fluid level indicator -Hydraulic oil temperature gauge Hydraulic control lockout Operator warning system indicators Radio ready speakers Rear window defrost, electric Seat mounted electronic implement controls, adjustable Sliding glass on the side windows Column mounted multi function control -lights, wipers, turn signal Suspension seat, fabric Tilt and telescope steering wheel Tinted front glass Wet arm wiper/washer, 2-speed and intermittent, front Wet arm wiper washer, rear

#### OTHER STANDARD EQUIPMENT

Large-access enclosure doors with adjustable close/open force Parallel lift loader linkage Recovery hitch with pin Remote mounted lubrication points Vandalism protectionlockable compartments

Customer City of Lake Elsinore	Sourcewell#032515-CAT	<u>_Date</u> 07-10-19

#### MACHINE SPECIFICATIONS

Description	Reference No
938M WHEEL LOADER	536-5303
LANE 2 ORDER	0P-9002
PREP PACK, UNITED STATES	430-2943
STEERING, STANDARD	333-6858
DIFFERENTIAL, OPEN REAR	349-8014
ENVIRONMENT, STANDARD	536-5320
WEATHER, STANDARD	454-0612
ENGINE, 938	536-5268
HYDRAULICS, 3V, CPLR READY, SL	536-5343
HYDRAULICS, STANDARD	536-5284
LINES, AUX 3RD, STD LIFT	530-1628
JUMPER LINES, AUX 3RD, FUSION	445-4725
LIGHTS, STD HALOGEN	488-1112
LIGHTS, ROADING, HALOGEN, RH	541-3066
CAB, DELUXE	536-5309
SEAT, DELUXE	563-5967
RADIO READY, BLUETOOTH,MIC,AUX	378-0951
PRODUCT LINK, CELLULAR PL641	454-0589
TIRES, 20.5R25 TI MXL * L3	376-0830
FENDERS, STANDARD	366-8150
COUNTERWEIGHT, LOGGER/AGG	467-7991
TOOLBOX AUX	491-7922
RIDE CONTROL	430-2860
KIT, SERIALIZED TECHNICAL MEDIA	0P-2491
CAMERA, REAR VIEW	377-5635
SIDE MIRROR, RH	482-5167
GUARD, POWERTRAIN, LOWER	349-8165
GUARD, POWERTRAIN, SIDE	425-1425
GUARD, CRANKCASE	349-8163
QUICK COUPLER, FUSION	536-5314
BUCKET, GP, 3.8 YD3, FUS	345-2428
CUTTING EDGE, BOLT ON, 4 PIECE	345-2758
PACK, DOMESTIC TRUCK	0P-0210
CERTIFICATE OF ORIGIN, ENGLISH	0G-6022
EMA	0P-5203

SOURCEWELL MEMBER DISCOUNT DEALER DISCOUNT	ž	<u>\$236,031.17</u> -\$31,900.00 -\$2,051.00

Sell Price	\$202,081.17
Net Balance Due	\$202,081.17
CA Tax (7.75%)	\$15,661.29
After Tax Balance	\$217,742.46

#### WARRANTY

Standard Warranty: 12 Months Full Machine

Extended Warranty:

60 Month / 3000 Hour Powertrain + Hydraulic Warranty

#### F.O.B/TERMS

**Riverside Machine** 

#### FINANCING

Finance terms and conditions subject to credit approval by Caterpillar Financial Services Inc.(CFSC). Payment amounts, down payments, and terms are estimates only, final amounts must be determined by CFSC.

Accepted by \_\_\_\_\_ on \_\_\_\_\_

Signature



# Cat® 938M

#### M Series - Making Your Choice Easy:

- Enjoy All Day Comfort Have a seat in the new M Series Small Wheel Loader and enjoy automatic temperature control, class leading sound levels, excellent all around visibility and low-effort joystick controls that move with you on a fully adjustable seat suspension. A large spacious operator environment combined with Caterpillar's exclusive hydraulic cylinder damping and smooth predictable controls make this the most comfortable seat on your job site.
- Work Made Easy Move more with Caterpillar's patented quick loading Performance Series buckets and optimized Z-bar linkage that combines the digging efficiency of a traditional Z-bar with tool carrier capabilities. The parallel lift and high tilt forces throughout the working range allow you to safely and confidently handle loads with precise control.

Multi-function work has never been easier with dedicated pumps for each system and a flow sharing implement valve governed by an intelligent power management system. Simultaneously lift, steer and drive without compromise. The M Series Small Wheel Loader simply does what you ask it to do.

- Efficiently Powerful Experience hybrid like fuel efficiency with an intelligent hydrostatic power train and industry leading fuel savings through a lower maximum engine speed of just 1,600 rpm in Standard Mode. Power when you need it with Caterpillar's exclusive Power-by-Range technology that increases power in Range 4 for improved speed on grade. For your toughest and most demanding applications a new Performance Mode will allow you to boost the power and hydraulic speed in all Ranges to get the job done even quicker. Meets U.S. EPA Tier 4 Final/EU Stage IV emission standards with a Cat<sup>®</sup> C7.1 ACERT<sup>TM</sup> engine that is designed to manage itself so you can concentrate on your work.
- Customize Your Experience Meet your application requirements and individual preferences with Caterpillar's industry first Hystat<sup>™</sup> Operator Modes featuring four unique power train settings. Select classic Torque Converter for smooth rollout, conventional Hystat for aggressive engine braking, an Ice Mode that maximizes your control on slippery underfoot, or default mode which blends the best of Hystat and Torque Converter characteristics. Fine tune machine performance with adjustments at your fingertips through the soft touch buttons and optional secondary display. Quickly set hydraulic response along with linkage kick-out positions, maximum wheel torque, and peak ground speed to efficiently perform a multitude of tasks.

## **Specifications**

Engine		
Engine Model	Cat C7.1 ACERT	
Power Mode	Standard Mode	Performance Mode
Speed Range	Range 1-3*	Range 1-4
Maximum Gross Power		
Maximum Engine Speed	1,600 rpm	1,800 rpm
ISO 14396	129 kW 173 hp	140 kW 188 hp
ISO 14396 (DIN)	129 kW 175 hp	140 kW - 190 hp
Rated Net Power	1,600 rpm	1,800 rpm
SAE J1349	125 kW 168 hp	136 kW 182 hp
SAE J1349 at		
Maximum Fan Speed	114 kW - 153 hp	125 kW 168 hp
ISO 9249 (DIN)	126 kW 171 hp	137 kW 186 hp

#### Engine (continued)

	Standaro Mode	b	Perform Mode	ance
Maximum Gross Torque				
ISO 14396	879 N-m	648 lbf-ft	879 N-m	648 lbf-ft
Maximum Net Torque				
SAE J1349	843 N-m	621 lbf-ft	843 N-m	621 lbf-ft
ISO 9249 (1977)/EEC 80/1269	852 N-m	628 lbf-ft	852 N-m	628 lbf-ft
Displacement	7.01 L	427 in <sup>3</sup>	7.01 L	427 in <sup>3</sup>

• Engine meets Tier 4 Final/Stage IV emission standards.

 Net power shown is the power available at the flywheel when the engine is equipped with alternator, air cleaner and diesel exhaust filter.

\*Range 4 power is boosted to be the same as Performance Mode.



# 938M Wheel Loader

2.5-3.2 m <sup>3</sup>	3.2-4.2 yd3
3.1-5.0 m³	4.0-6.5 yd <sup>3</sup>
40°	
130 L/min	34 gal/min
24 130 kPa	3,500 psi
57 630 N·m	42,506 ibf-ft
42 570 N⋅m	31,398 lbf-ft
2.3 seconds	
3.3 turns	
190 L/min	50 gal/min
190 L/min	50 gal/min
160 L/min	42 gal/min
28 000 kPa	4,061 psi
30 000 kPa	4,351 psi
28 000 kPa	4,061 psi
28 000 kPa	4,061 psi
Standard Mode At 1 600 rpm	Mode
Mode At 1,600 rpm	At 1,800 rpm
Mode At 1,600 rpm 6.2 seconds	Mode At 1,800 rpm 5.5 seconds
Mode At 1,600 rpm	Mode At 1,800 rpm
	40° 130 L/min 24 130 kPa 57 630 N·m 42 570 N·m 2.3 seconds 3.3 turns 190 L/min 190 L/min 160 L/min 28 000 kPa 30 000 kPa

\*Adjustable from 20% to 100% of maximum flow through the secondary display, when equipped.

Service Refill Capacities		
Fuel Tank	195 L	51.5 gal
Cooling System	32 L	7.9 gal
Engine Crankcase	20 L	5.3 gal
Transmission (gearbox)	11 L	2.9 gal
Axles:		
Front	35 L	9.2 gal
Rear	35 L	9.2 gal
Hydraulic System (including tank)	170 L	44.9 gal
Hydraulic Tank	90 L	23.8 gal
Diesel Exhaust Fluid (DEF) Tank	19 L	5 gal

 DEF used in Cat SCR systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241-1.

#### Transmission

Forward and Reverse:		
Range 1*	1-13 km/h	0.6-8 mph
Range 2	13 km/h	8 mph
Range 3	27 km/h	17 mph
Range 4	<b>40 k</b> m/h	25 mph

\*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

20.5 R25, radial (L-3)	
20.5 R25, radial (L-2)	23.5 R25, radial (L-3)
20.5 R25, radial (L-5)	650/65 R25 radial (L-3)
20.5-25 12PR (L-2)	Skidder/Agriculture
20.5-25 12PR (L-3)	Flexports Gen II
20.5-25 16PR (L-5)	
	20.5 R25, radial (L-2) 20.5 R25, radial (L-5) 20.5-25 12PR (L-2) 20.5-25 12PR (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.

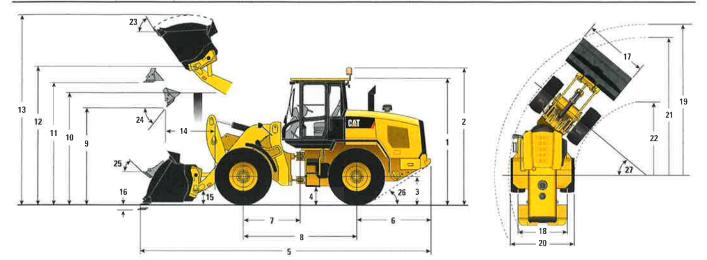
#### Cab

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

- Cab and Rollover Protective Structures (ROPS) are standard in North America and Europe.
- The declared dynamic operator sound pressure levels per ISO 6396:2008\*, when properly installed and maintained, are:
   Standard cab: 68 ±3 dB(A)
- Deluxe cab: 66 ±2 dB(A)
- \*The measurements were conducted with the cab doors and windows closed and at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.

#### Axles

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



Dimensions and Operating Specifications (All dimensions are approximate. Dimensions vary with bucket and tire choice.)

	Standa	ard Lift	High	Lift	
* 1 Height: Ground to Cab	3340 mm	(10'11")	3340 mm	(10'11")	
* 2 Height: Ground to Beacon	3669 mm	(12'0")	3669 mm	(12'0")	
* 3 Height: Ground Axle Center	685 mm	(2'2")	685 mm	(2°2")	
* 4 Height: Ground Clearance	386 mm	(1'3")	386 mm	(1'3")	
* 5 Length: Overall	7656 mm	(25'1")	8397 mm	(27'6")	
6 Length: Rear Axle to Bumper	1963 mm	(6'5")	1968 mm	(6'5")	
7 Length: Hitch to Front Axle	1525 mm	(5'0")	1525 mm	(5'0")	
8 Length: Wheel Base	3050 mm	(10'0")	3050 mm	(10'0")	
* 9 Clearance: Bucket at 45 degrees	2834 mm	(9'3")	3415 mm	(11'2")	
* 10 Clearance: Loadover Height	3354 mm	(11'0")	3561 mm	(11'8")	
* 11 Clearance: Level Bucket	3641 mm	(11'11")	4222 mm	(13'10")	
* 12 Height: Bucket Pin	3969 mm	(13'0")	4550 mm	(14'11")	
* 13 Height: Overall	5273 mm	(17'3")	5853 mm	(19'2")	
* 14 Reach: Bucket at 45 degrees	1146 mm	(3'9")	1413 mm	(4'7")	
15 Carry Height: Bucket Pin	467 mm	(1'6")	686 mm	(2'2")	
* 16 Dig Depth	101 mm	(3.9")	135 mm	(5.3")	
17 Width: Bucket	2750 mm	(9'0")	2750 mm	(9'0")	
18 Width: Tread Center	2065 mm	(6'9")	2065 mm	(6'9")	
19 Turning Radius: Over Bucket	6133 mm	(20'1")	6490 mm	(21'3")	
20 Width: Over Tires	2675 mm	(8'9")	2675 mm	(8'9")	
21 Turning Radius: Outside of Tires	5537 mm	(18'1")	5537 mm	(18'1")	
22 Turning Radius: Inside of Tires	2852 mm	(9'4")	2852 mm	(9'4")	
23 Rack Angle at Full Lift	54 de	grees	53 degrees		
24 Dump Angle at Full Lift	49 de	grees	47 de	grees	
25 Rack Angle at Carry	45 de	grees	50 de	grees	
26 Departure Angle	33 de	33 degrees		33 degrees	
27 Articulation Angle		40 degrees		40 degrees	
<ul> <li>Tipping Load – Straight (ISO 14397-1)</li> </ul>	11 837 kg	26,097 lb	8362 kg		
<ul> <li>Tipping Load Full Turn (ISO 14397-1)</li> </ul>	10 045 kg	22,146 lb	7021 kg	15,480 lb	
* Breakout	13 170 kg	29,035 lb	12 663 kg	27,917 lb	
* Operating Weight	16 400 kg	36,156 lb	16 326 kg	35,993 lb	

\*Vary with bucket.

\*\*Vary with tire.

Dimensions listed are for a machine configured with 2.5 m³ (3.2 yd³) general purpose Fusion™ bucket, bolt-on cutting edge, heavy counterweights, additional guarding, 80 kg (176 lb) operator and Michelin 20.5 R25 (L-3) XHA2 tires.

## 938M Wheel Loader

#### **STANDARD EQUIPMENT**

#### **POWER TRAIN**

- Auto idle shut down feature
- Cat C7.1 ACERT engine
  - Power modes (Standard and Performance)
  - Power by range (High Power in Range 4)
  - Turbocharged and aftercooled
  - Filtered crankcase breather
  - Diesel particulate filter
  - Selective Catalyst Reduction
- Coded start (requires secondary display)
- Coolant protection to -34° C (-29° F)
- Enclosed wet disc full hydraulic brakes
- Fuel priming pump, automatic
- Hydraulically driven demand cooling fan
- Hydrostatic transmission with electronic
- control
- Operator modes (Default, TC, Hystat, and Ice)
- Directional Shift Aggressiveness (fast, medium, slow)
- Rimpull control, adjust wheel torque
- Creeper control, adjust ground speed
- Parking brake, electric
- Single plane cooling package wide six fins per inch density
- Throttle lock and max speed limiter

#### 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) in fork mode
- Hydraulic response setting (fast, medium, slow)
- Hydraulic diagnostic connectors and S·O·S<sup>™</sup> ports
- Load sensing hydraulics and steering

#### ELECTRICAL

- 🔳 Alternator, 115 amp, heavy duty
- 12V power supply in cab (2)
- Batteries, 1,000 CCA (2) 24V system, disconnect switch
- Back-up alarm
- Emergency shutdown switch
- Halogen work and roading lights, LED rear tail lights
- Product Link<sup>™</sup> PRO with three year subscription
- Remote jump start post
- Resettable main and critical function breakers

#### **OPERATOR ENVIRONMENT**

- 75 mm (3 in) retractable seat belt, with audible alarm and indicator
- Automatic temperature control
- External heated mirrors with lower parabolic
- 🗯 Hydraulic control lockout
- Interior cab lighting, door and dome
- Interior rearview mirrors (2)
- 🔳 Lunch box storage
- Radio ready speakers
- 🔳 Rear window defrost, electric
- Seat-mounted electronic implement controls, adjustable
- Column mounted multi function control lights, wipers, turn signal
- Tilt and telescopic steering wheel
- Tinted front glass
- Wet arm wiper/washer, 2-speed and intermittent, front

#### **OTHER STANDARD EQUIPMENT**

- Large-access enclosure doors with adjustable close/open force
- Parallel lift loader linkage

#### EU STANDARD EQUIPMENT

- Deluxe cab
- Secondary display
- Rearview camera

#### **OPTIONAL EQUIPMENT**

- Auto lube, integrated in secondary display
   Auxiliary flow, third and fourth function,
- Auxiliary flow, third and fourth function, adjustable through secondary display
- Beacon light, strobe
- Cab, deluxe (standard in Europe, optional in North America)
  - Electrically adjustable external heated mirrors (2)
  - Secondary display to enable features and adjust parameters
  - Sunscreen, front and rear
- Camera, rearview (standard in Europe)
- Cold start package
- Counterweight, (heavy and logger)

- Coupler, (Fusion and ISO 23727)
- Debris packages (low, medium, high)
- Fenders (extended cover and full coverage)
- Guarding (machine and operator)
- Linkage, high lift
- Lights, auxiliary, halogen or LED with engine compartment lights
- Object Detection
- Product Link ELITE with capabilities for software push, data logging, histogram and trend mapping
- Radio packages
- Ride Control System, adjustable through secondary display

#### Seats

- Deluxe seat fully adjustable fabric air suspension seat with mid backrest and mechanical lumbar support
- 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.
- Steering
- Dual mode and secondary
- NOTE: Not all features are available in all regions.

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