PRODUCT SPECIFICATIONS FOR 938K

	US Metric
Maximum Gross Power	140 kW
Maximum Gross Power - 1,800 rpm - ISO 14396 (Performance Power Mode: Range 1-4)	140 kW
Engine Model	Cat® C7.1
Maximum Gross Power - 1,600 rpm - ISO 14396 (Standard Power Mode: Range 1-3*)	129 kW
Note (2)	*Range 4 power is boosted to be the same as Performance Mode.
Note (1)	Net power shown is the power available at the flywheel when the engine is equipped with alternator and air cleaner.
Maximum Gross Power - 1,800 rpm - ISO 14396 (metric) (Performance Power Mode: Range 1-4)	190 hp
Net Power - 1,800 rpm - SAE J1349 (Performance Power Mode: Range 1-4)	136 kW
Net Power - 1,600 rpm - ISO 9249 (metric) (Standard Power Mode: Range 1-3*)	173 hp
Net Power - 1,800 rpm - ISO 9249 (metric) (Performance Power Mode: Range 1-4)	188 hp
Net Power - 1,600 rpm - SAE J1349 (Standard Power Mode: Range 1-3*)	126 kW
Maximum Gross Power - 1,600 rpm - ISO 14396 (metric) (Standard Power Mode:	175 hp

Range 1-3*)

Bucket Capacities - Light Material

Maximum Gross Torque - ISO 14396 (Standard Power Mode: Range 1-3*)	896 N·m		
Displacement (Standard Power Mode: Speed Range 1-3*)	7.01		
Maximum Net Torque - ISO 9249 (1977)/EEC 80/1269 (Standard Power Mode: Range 1-3*)	870 N·m		
Emissions	Engine meets U.S. EPA Tier 3/EU Stage IIIA/Brazil MAR-1 equivalent emission standards.		
Maximum Gross Torque - ISO 14396 (Performance Power Mode: Range 1-4)	912 N·m		
Maximum Net Torque - SAE J1349 (Standard Power Mode: Range 1-3*)	860 N·m		
Maximum Net Torque - ISO 9249 (1977)/EEC 80/1269 (Performance Power Mode: Range 1-4)	886 N·m		
Maximum Net Torque - SAE J1349 (Performance Power Mode: Range 1-4)	876 N·m		
Displacement (Performance Power Mode: Speed Range 1-4)	7.01		
Bucket Capacities	2.5-5 m³ (3.2-6.5 yd³)		
Bucket Capacities - General Purpose	2.5-3.2 m³ (3.2-4.2 yd³)		

3.1-5 m³ (4.0-6.5 yd³)

Operating Weight	15282 k	g		
ROPS	SAE J1040 MAY94, ISO 3471-1994			
FOPS	SAE J/ISO 3449 APR98, Level II, ISO 34	SAE J/ISO 3449 APR98, Level II, ISO 3449 1992 Level II		
Note (1)	Cab and Rollover Protective Structures (ROPS) are standard.			
Note (2)	A semi-cab option is available.			
Axles - Front		35 l		
Engine Crankcase		19.5		
Fuel Tank		195 l		
Hydraulic Tank 90 l				
Hydraulic System - Including Tank 170				
Transmission - Gear Box		11		
Axles - Rear 3		35 I		
Cooling System		32		
Number of Steering Wheel Turns - Full Left to Full Right or Full Right to Full 3.1 turns Left			3.1 turns	
Steering Cycle Times - Full Left to Full Right - At 1,800 rpm: 90 rpm Steering 2.2 Wheel Speed			2.2 s	
Maximum Working Pre	essure - Steering Pump		24130 kPa	

Maximum Flow - S	steering Pump		130 l/min	
Maximum Steering Torque - 40° (Full Turn) 42			42570 N·m	
Maximum Steering Torque - 0° (Straight Machine) 57630 N·m				
Steering Articulation Angle - Each Direction			40°	
Front	Fixed; Open differential (standa	ard); Locking differential (optio	nal)	
Rear	Oscillating ±11 degrees; Open of (optional in some regions)	differential (standard); Limited	slip differential	
Hydraulic Cycle Time - Performance Mode at 2.7 s 1,800 rpm - Float Down, Maximum Lift to Ground Level				
Maximum Workin Pump	g Pressure - Implement	28000 kPa		
Hydraulic Cycle Ti rpm - Total Cycle 1	me - Standard Mode at 1,600 Fime	10.6 s		
Maximum Flow - I	mplement Pump	190 l/min		
Relief Pressure - T Maximum Workin	ilt Cylinder - 4th Function g Pressure	28000 kPa		
•	me - Standard Mode at 1,600 aximum Lift Height	1.7 s		
Maximum Flow - I Function Maximu	mplement Pump - 4th m Flow*	150 l/min		
	me - Performance Mode at	1.5 s		

Hydraulic Cycle Time - P 1,800 rpm - Total Cycle T		9.7 s	
Relief Pressure - Tilt Cyl Maximum Working Pres		28000 kPa	
Hydraulic Cycle Time - Standard Mode at 1,600 rpm - Raise, Ground Level to Maximum Lift		6.2 s	
Relief Pressure - Tilt Cylinder		30000 kPa	
Hydraulic Cycle Time - S rpm - Float Down, Maxi Level		2.7 s	
Note		*Adjustable from 20% to 100% of maximum flow through the secondary display, when equipped.	
Hydraulic Cycle Time - F 1,800 rpm - Raise, Grour Lift		5.5 s	
Maximum Flow - Impler Function Maximum Flow	-	190 l/min	
Forward and Reverse - Range 2	13 km/h		
Forward and Reverse - Range 4	40 km/h		
Forward and Reverse - Range 3	27 km/h		
Note	*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,

Forward and Reverse - Range 1*	1-13 km/h (0.6-8 mph)		
Note (1)	Other tire choices are available. Contact your Cat dealer for details.		
Other Choices Vary Region (1)	by 20.5-25 16 PR (L-3)		
Note (3)	Caterpillar recommends that you consult a tire supplier to evaluate all conditions before selecting a tire model.		
Note (2)	In certain applications, the loader's productive capabilities may exceed the tire's tonnes-km/h (ton-mph) capabilities.		
Standard Size	20.5 R25, radial (L-3)		
Note (3)	The declared exterior sound power level is 104 dB(A) when the value is measured according to the dynamic test procedures and the conditions that are specified in "ISO 6395:2008."		
Note (1)	The declared dynamic operator sound pressure level is 72 dB(A) when "ISO 6396:2008" is used to measure the value for an enclosed cab.		

The measurement was conducted at 70% of the maximum engine cooling fan speed, with the cab doors and cab windows closed. The cab was properly installed and maintained. The sound level may vary at different engine cooling

Note (2)

fan speeds.

938K STANDARD EQUIPMENT POWER TRAIN

Auto idle shut down feature
Cat C7.1 engine
Power modes (Standard and Performance)
Power by range (High Power in Range 4)
Turbocharged and aftercooled
Filtered crankcase breather
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

HINKAULIC9

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·SSM 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
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 mirrors with lower parabolic
Hydraulic control lockout
Interior cab lighting, door and dome
Interior rear view mirrors (2)
Lunch box storage
Radio ready speakers
Seat-mounted electronic implement controls, adjustable

Seat-mounted electronic implement controls, adjustable
Column mounted multi function control – lights, wipers, turn signal
Tilt and telescopic steering wheel
Tinted front glass

OTHER STANDARD EQUIPMENT

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

938K OPTIONAL EQUIPMENT OPTIONAL EQUIPMENT

Auto lube, integrated in secondary display

Auxiliary flow, third and fourth function, adjustable through secondary display

Beacon light, strobe

Cab, deluxe

Camera, roof mounted, front view with separate display*

Rear window defroster (standard in Europe)

Secondary display to adjust settings (standard in Europe)

Sunscreen, front and rear

Wet arm wiper/washer, front and rear

*Forward facing camera system may be required for local EU requirements. Consult your local Cat dealer for additional information.

Camera, rear view (standard in Europe)

Cold start package

Corrosion protection package

Counterweight, (heavy and logger)

Coupler, (Fusion™ and ISO 23727)

Debris packages (low, medium, high)

Differential lock, front axle

Fenders (extended cover and full coverage)

Guarding (machine and operator)

Linkage, high lift

Lights, auxiliary, halogen or LED with engine compartment lights

Lights, LED front roading

Load check valves

Object Detection

Product Link™ PRO and ELITE with capabilities for software push, data logging, histogram and trend mapping

Radio packages

Rear wiper

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

CE Certification (standard in Europe)

NOTE: Not all features are available in all regions.