

Product Specifications For 430



Engine

Net Power - SAE J1349:2011	107 hp
Displacement	220 in ³
Net Torque Rise - 1,400 rpm - SAE J1349	358 ft-lb
Power Rating Conditions - No De-Rating Required Up To	10000 ft
Net Power Rating at 2,200 rpm - ISO 9249	107 hp
Net Power Rating at 2,200 rpm - SAE J1349	107 hp
Emissions	Engine meets Tier 4 Final/Stage V emission standards.
Net Torque Rise - 1,400 rpm - SAE J1349	40%
Ratings at 2,200 rpm - Gross Power ISO 14396	115 hp
Ratings at 2,200 rpm - Gross Power SAE J1995	118 hp
Engine Model	C3.6 86 kW (115 hp) Electronic Turbo Intercooled
Dimensions - Stroke	4.72 in
Net Peak Power Rating @ 2,200 rpm - SAE J1349	107 hp
Dimensions - Bore	3.86 in
Net Peak Power Rating @ 2,200 rpm - ISO 9249	107 hp

Backhoe

Dig Depth - Standard	15.1 ft
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Weights

Operating Weight - Maximum	24251 lb
Cab - ROPS/FOPS	320 lb
Ride Control	33 lb
Air Conditioning	99 lb
Note (2)	**Minimum weight configuration is the same as configuration above, however, excludes counterweight, hoe bucket, and operator.
Operating Weight - Maximum - ROPS Capacity	24251 lb
MP Bucket (0.96 m³/1.25 yd³) - Without Fold-Over Forks	1642 lb
Operating Weight - Estimated*	18051 lb
MP Bucket (0.96 m³/1.25 yd³) - With Fold-Over Forks	2017 lb
Note (1)	*Machine configuration: standard stick hoe, OROPS canopy, AWD powershift shift transmission, 0.96 m ³ (1.25 yd ³) GP (General Purpose) loader bucket, 610 mm (24 in) standard duty hoe bucket, front 340/80-18 and rear 500/70-24 tires, 460 kg (1,014 lb) counterweight, 80 kg (176 lb) operator, full fuel tank.
All-Wheel Drive	STD
Operating Weight (minimum)**	16590 lb
Loader QC	540 lb

Auto-Shift Transmission	STD
Counterweights, base - Maximum	1014 lb
Extendible Stick (excludes ft. counterweight)	655 lb
Counterweights, base - Stackable, one	529 lb
Counterweights, base	256 lb

Hydraulic System

Pump Type	Variable-flow, Axial Piston
System Pressure - Backhoe	3626 psi
Pump Capacity at 2,200 rpm	49.4 gal/min
Type	Closed Center
System Pressure - Loader	3626 psi

Transmission

Power-Shift Transmission with LTC - Optional - Forward - 5th LTC	18 mile/h
Power Shift Transmission - Standard - Reverse - 3rd	17 mile/h
Power-Shift Transmission with LTC - Optional - Reverse - 1st	3.7 mile/h
Power-Shift Transmission with LTC - Optional - Forward - 6th	26 mile/h

Power-Shift Transmission with LTC - Optional - Forward - 6th LTC*	25 mile/h
Power Shift Transmission - Standard - Reverse - 1st	3.7 mile/h
Power Shift Transmission - Standard - Forward - 4th	26 mile/h
Power Shift Transmission - Standard - Reverse - 2nd	7.7 mile/h
Power-Shift Transmission - Optional - Reverse - 3rd	17 mile/h
Power-Shift Transmission with LTC - Optional - Forward - 2nd	5.9 mile/h
Power Shift Transmission - Standard - Forward - 1st	3.7 mile/h
Power Shift Transmission - Standard - Forward - 3rd	12 mile/h
Power-Shift Transmission with LTC - Optional - Forward - 1st	3.7 mile/h
Power Shift Transmission - Standard - Forward - 2nd	5.9 mile/h
Power-Shift Transmission - Optional - Reverse - 2nd	7.7 mile/h
Power-Shift Transmission - Optional - Forward - 4th	12 mile/h
Power-Shift Transmission - Optional - Forward - 5th	17 mile/h
Power-Shift Transmission with LTC - Optional - Forward - 3rd	8 mile/h

Power-Shift Transmission with LTC - Optional - Forward - 5th	17 mile/h
Power-Shift Transmission with LTC - Optional - Reverse - 2nd	7.7 mile/h
Power-Shift Transmission - Optional - Reverse - 1st	3.7 mile/h
Power-Shift Transmission - Optional - Forward - 2nd	5.9 mile/h
Power-Shift Transmission - Optional - Forward -1st	3.7 mile/h
Power-Shift Transmission with LTC - Optional - Reverse - 3rd	17 mile/h
Power-Shift Transmission with LTC - Optional - Forward - 4th	12 mile/h
Power-Shift Transmission - Optional - Forward - 6th	26 mile/h
Power-Shift Transmission - Optional - Forward - 3rd	8 mile/h
Note (1)	*Travel speeds of backhoe loader at full throttle, when equipped with 500/70-24 rear tires.
Note (2)	**Limited by engine speed to 40 km/h (25 mph).

Axle Ratings

Front Axle, AWD - Static	51808 lb
Rear Axle - Dynamic	22046 lb
Front Axle, AWD - Dynamic	19841 lb

Rear Axle - Static	58422 lb
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Steering

Bore	2.6 in
Stroke	4.2 in
Turning Circle - (inner wheel not braked) - Outside Widest Loader Bucket	35.25 ft
Axle Oscillation	11°
Power Steering	Hydrostatic
Turning Circle - (inner wheel not braked) - Outside Front Wheels	26.92 ft
Rod Diameter	1.6 in
Type	Front Wheel Steering
Cylinder	One Double-Acting

Service Refill Capacities

Diesel Exhaust Fluid (DEF)	5 gal (US)
Transmission - Power Shift - AWD	5 gal (US)
Front Axle (AWD)	2.9 gal (US)
Front Axle (AWD) - Planetaries	0.2 gal (US)
Transmission - Power Shuttle - AWD	4.8 gal (US)
Engine Oil - With Filter	2.4 gal (US)
Rear Axle - Planetaries	0.4 gal (US)

Cooling System with Air Conditioning	4.8 gal (US)
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Rear Axle	4.2 gal (US)
Fuel Tank	42.3 gal (US)
Hydraulic System	25.1 gal (US)
Hydraulic Tank	11.1 gal (US)

Sustainability

Recyclability	92%
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430 Standard Equipment

STANDARD EQUIPMENT

- Adjustable auxiliary controls, backhoe loader
- Air cleaner
- Alarm, back-up
- Audible system fault alarm
- Automatic Engine Speed Control (AESC)
- Battery, maintenance-free, 850 CCA
- Battery disconnect switch
- Boom transport lock
- Brace, lift cylinder
- Brake, parking, Spring Applied Hydraulically Released (SAHR)
- Brakes, hydraulically boosted, oil disc, dual pedals, interlocking
- Bucket level indicator
- Canopy, ROPS/FOPS
- Cat cushion swing system
- Coat restraint
- Coolant/antifreeze, extended life
- Dome light (cab only)
- Diagnostic port for engine, machine and gauge cluster Electronic Control Modules
- Differential lock, loader joystick
- Drink holders, two
- Engine, Cat C3.6 ACERT (Direct Injection Turbocharged), meets Tier 4 Final/Stage V emission standards, Selective Catalytic Reduction, Diesel Oxidation Catalyst (DOC)
- Engine enclosure, sound suppression, removable side panels
- Face seals, O-ring
- Fan, suction and guard
- Fast reversing shuttle, all gears
- Fenders, rear
- Filters, spin-on: fuel, engine oil, transmission oil, water separator
- Filters, bowl and cartridge: hydraulic fluid

Flashing hazards/signal lights
Floor mat
Fuel tank, fully enclosed
Four wheel drive
Four wheel drive shaft guard
Fully hinged front grill for cooling package cleaning access
Gauge cluster: coolant temperature, fuel level, torque converter temperature, DEF level
Ground level fuel fill and DEF fill
Halogen lights, working (2 front, 2 rear)
High ambient cooling package
Hood lock, inside cab
Hydraulic hose, XT™
Hydraulic oil cooler
Hydraulic oil level sight gauge
Hydraulic valves, loader 2 function
Hydraulic valves, backhoe 4 function
Hydraulics, load sensing with variable displacement piston pump
Indicator lights: wait to start, water in fuel, engine warning, warning lamp, emissions module malfunction
low battery/charging system warning, high hydraulic oil temperature: LCD warnings: engine oil pressure,
machine locked, service due, air filter blocked, high coolant temperature, auto idle shutdown, high torque
converter temperature, hydraulic filter bypass
Instrument panel lights
Joystick controls: pilot operated, excavator-style with pattern changer
Key start/stop system
LCD operator display with soft key controls: engine speed, hour meter, gear/direction, battery voltage,
hydraulic oil temperature, torque converter temperature, coolant temperature, trip totals (fuel and hours),
lifetime totals (fuel and hours), operator settings (units, brightness, programmable hoe auxiliary flow),
service mode diagnostics, maintenance intervals, ECM/system info
Loader, self-leveling, return-to-dig and transmission disconnect switch
Loader, single tilt
Mirror, interior, rearview
One-touch low idle
Open circuit breather
Pattern changer, in cab
Power receptacle, 5 volt USB, 1 internal
Power receptacle, 12 volt, 2 internal, 1 external
Power steering, hydrostatic
Product Link™, satellite, network manager
Product Link, cellular, network manager
Seat belt, retractable, 51 mm (2 in)
Socket, two roof
Stabilizer shoes, street
Steering knob
Seat, air suspension, vinyl cover, with armrest
Stabilizers, EH Control, Auto-UP
Starting system, glow plugs
Steering column, tilting, telescopic
Storage compartment, lockable

Storage tray
Stop and tail lights
Swing transport lock
Tires
Toolbox, external, lockable
Torque converter
Throttle, hand and foot, electronic
Transmission, 4 speed, powershift
Transmission neutralizer switch
Transport tie-downs
Vandalism locks, four
Warning horn, electric

430 Optional Equipment

OPTIONAL EQUIPMENT

Auxiliary hydraulics, loader, adjustable flow
Auxiliary hydraulics, rear, adjustable flow
Battery, additional, 850 CCA
Cab, deluxe
Cold weather fuel (-30° C/-22° F)
Cold weather package, including additional battery, engine block heater, radiator antifreeze, cold weather fuel (-30° C/-22° F) and mounting for an ether bottle
Counterweights, 115 kg (255 lb), 240 kg (530 lb) or 460 kg (1,015 lb)
Fenders, front with integral steps
Guard, boom protection plate
Guard, stabilizer, rock
Hydraulic valves, loader with auxiliary thumb control (3rd valve for MP or Quick Coupler)
Hydraulic valves, backhoe (5th and 6th function)
Hydraulic lines, combined function auxiliary
LED lights, working (2 front, 2 rear)
Quick Coupler, hydraulic, dual lock
Quick Coupler, manual, dual lock
Quick Coupler, manual, pin lock
Radio and CD player, Bluetooth®
Ride Control
Rotating beacon, magnetic mount
Seat, air suspension, fabric with armrest
Seat, air suspension, fabric with armrest, heated
Seat belt, retractable, 75 mm (3 in)
Security system, Bluetooth
Security system, operator display
Side mirrors, cab, external
Single Tilt Loader Coupler, Integrated Tool Carrier (IT) Interface
Stabilizer pads, reversible
Stick, extendible
Transmission, AutoShift with lock-up torque converter, 6 speed
Vandalism protection, gauge cover

Work Tool Attachments such as buckets, forks, material handling arms, augers, hammers, brooms, cold planers and vibratory plate compactors. See your Cat dealer for more information.