

Product Specifications For 428



Engine

Power - Net	70 hp
-------------	-------

Power	55.4 kW, 70 kW or 74.4 kW
-------	---------------------------

Engine - EU Stage V (Standard)

Stroke	4.72 in
--------	---------

Bore	3.86 in
------	---------

Note (1)	Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
----------	--

Displacement	220 in ³
--------------	---------------------

Engine	C3.6 55.4 kW Electronic Turbo Intercooled
--------	---

Emissions	Meets EU Stage V emission standards.
-----------	--------------------------------------

Net Torque - SAE J1349	308 lb/ft
------------------------	-----------

Torque Rise (net)	86% @ 1,200 rpm
-------------------	-----------------

Note (2)	No derating required up to 3048 m altitude. Auto derate protects hydraulic and transmission systems.
----------	--

Net Power Rating @ 2,200 rpm - SAE J1349:2011	52 kW/70 hp
---	-------------

Ratings at 2,200 rpm - Engine Power ISO 14396:2002	55 kW/75 hp
--	-------------

Ratings at 2,200 rpm - Gross Power SAE J1995:2014	56 kW/76 hp
---	-------------

Net Power Rating @ 2,200 rpm - 51 kW/70 hp
ISO 9249:2007

Engine - EU Stage V (Optional)

Stroke	4.72 in
Note (1)	Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
Emissions	Meets EU Stage V emission standards.
Torque Rise (net)	43% @ 1,500 rpm
Displacement	220 in³
Net Torque - SAE J1349	291 lb/ft
Engine	C3.6 70 kW Electronic Turbo Intercooled
Note (2)	No derating required up to 3048 m altitude. Auto derate protects hydraulic and transmission systems.
Bore	3.86 in
Net Power Rating @ 2,200 rpm - SAE J1349:2011	64 kW/86 hp
Ratings at 2,200 rpm - Engine Power ISO 14396:2002	70 kW/95 hp
Ratings at 2,200 rpm - Gross Power SAE J1995:2014	71 kW/97 hp
Net Power Rating @ 2,200 rpm - ISO 9249:2007	63 kW/86 hp

Engine - EU Stage V (Optional) - A

Net Torque - SAE J1349	322 lb/ft
------------------------	-----------

Torque Rise (net)	48% @ 1,500 rpm
Engine	C3.6 74.4 kW Electronic Turbo Intercooled
Emissions	Meets EU Stage V emission standards.
Displacement	220 in³
Note (2)	No derating required up to 3048 m altitude. Auto derate protects hydraulic and transmission systems.
Note (1)	Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
Bore	3.86 in
Stroke	4.72 in
Ratings at 2,200 rpm - Gross Power SAE J1995:2014	76 kW/103 hp
Net Power Rating @ 2,200 rpm - SAE J1349:2011	68 kW/92 hp
Net Power Rating @ 2,200 rpm - ISO 9249:2007	68 kW/92 hp
Ratings at 2,200 rpm - Engine Power ISO 14396:2002	74 kW/101 hp

Transmission

Note	Travel speeds of backhoe loader at full throttle, when equipped with 480/80-26 rear tires.
-------------	--

Transmission - Standard Shift Transmission (Standard)

Forward - 4th	24.9 mile/h
Reverse - 1st	3.7 mile/h

Reverse - 2nd	5.6 mile/h
Forward - 1st	3.7 mile/h
Reverse - 3rd	13 mile/h
Forward - 3rd	13 mile/h
Forward - 2nd	5.6 mile/h
Reverse - 4th	24.9 mile/h

Transmission - Powershift Transmission (Optional)

Reverse - 3rd	16.8 mile/h
Reverse - 1st	3.7 mile/h
Forward - 4th	24.9 mile/h
Forward - 2nd	6.2 mile/h
Forward - 3rd	12.4 mile/h
Reverse - 2nd	7.5 mile/h
Forward - 1st	3.7 mile/h

Transmission - Auto-Shift Transmission (Optional)

Reverse - 1st	3.7 mile/h
Forward - 4th	12.4 mile/h
Forward - 3rd	7.5 mile/h
Forward - 6th	24.9 mile/h
Forward - 1st	3.7 mile/h

Reverse - 2nd	7.5 mile/h
Forward - 2nd	6.2 mile/h
Reverse - 3rd	16.8 mile/h
Forward - 5th	16.8 mile/h

Transmission - Auto-Shift Transmission With Lock-Up Torque Converter (Optional)

Reverse - 3rd	16.8 mile/h
Reverse - 1st	3.7 mile/h
Forward - 3rd	7.5 mile/h
Forward - 6th	24.9 mile/h
Forward - 1st	3.7 mile/h
Reverse - 2nd	7.5 mile/h
Forward - 5th	16.8 mile/h
Forward - 4th	12.4 mile/h
Forward - 2nd	6.2 mile/h

Axle Ratings

Rear Axle - Static	58422 lb
Front Axle (AWD) - Static	51809 lb
Front Axle (AWD) - Dynamic	19842 lb
Rear Axle - Dynamic	22046 lb

Weights

Operating Weight - Nominal	18232 lb
Operating Weight - Maximum	24251 lb
Counterweights - Maximum	1014 lb
Minimum Counterweight Recommendations - Extendible Stick: Loader Bucket - MP	0 lb
Minimum Counterweight Recommendations - Standard Stick: Loader Bucket - MP	0 lb
Air Conditioning	99 lb
Minimum Counterweight Recommendations - Extendible Stick: Loader Bucket - GP	1014 lb
Counterweights - Base	254 lb
Ride Control	33 lb
Minimum Counterweight Recommendations - Standard Stick: Loader Bucket - GP	254 lb
Operating Weight - ROPS Capacity - Maximum	24251 lb
Extendible Stick	459 lb
Auto-Shift Transmission	212 lb
MP Bucket (1.03 m³/1.3 yd³) - with Fold-over Forks	1896 lb

Cab - ROPS/FOPS	Standard
Total Gross Weight Not to Exceed	24251 lb
Operating Weight (estimated) (55 kW/74 hp)	18232 lb
MP Bucket (1.03 m³/1.3 yd³) - without Fold-over Forks	1486 lb
Note	Machine Configuration – 70 kW HRC engine; standard stick hoe; standard cab with A/C; AWD standard shift transmission; 1.03 m3 MP loader bucket; 600 mm standard duty hoe bucket; 340/80-20 and 480/80-26 tires; no counterweight; One Way Aux Lines; AWD Guard; Front Fenders; HD Battery; 80 kg operator; full fuel tank.
Operating Weight (estimated) (70 kW/94 hp)	18398 lb
Loader QC	408 lb
Counterweights - Mid	529 lb

Hydraulic System

System Pressure - Loader	3626 psi
System Pressure - Backhoe	3626 psi
Pump Type	Variable-Flow, Axial Piston
Type	Closed Center
Pump Capacity @ 2,200 rpm	42.3 gal/min

Steering

AWD Cylinder, One (1) Double Acting - Stroke	4.2 in
Power Steering	Hydrostatic

AWD Cylinder, One (1) Double Acting - Bore	2.6 in
AWD Cylinder, One (1) Double Acting - Rod Diameter	1.6 in
Type	Front Wheel
Turning Circle - AWD (inner wheel not braked) - Outside, Front Wheels	30.42 ft
Turning Circle - AWD (inner wheel not braked) - Outside, Widest Loading Bucket	38.13 ft

Service Refill Capacities

Rear Axle	4.2 gal (US)
Rear Axle - Planetaries	0.4 gal (US)
Hydraulic Tank	11.1 gal (US)
Engine Oil - With Filter	2.4 gal (US)
Hydraulic System	25.1 gal (US)
Fuel Tank	42.3 gal (US)
Cooling System - A/C	4.8 gal (US)
Diesel Exhaust Fluid	5 gal (US)
Front Axle - Planetaries	0.2 gal (US)
Front Axle	2.9 gal (US)

Service Refills Capacities

Transmission (Powershift/Autoshift)	4.18 gal (US)
Transmission (Standard Shift)	3.69 gal (US)

Loader Performance

Breakout Force

12320 ft·lbf

Backhoe Digging Depth

Dig Depth

4778 mm/5700 mm (E-Stick)

Operator Station

Controls

Mechanical Loader; Mechanical Hoe (Pilot Hoe Optional)

428 Standard Equipment

Cab ROPS And FOPS

Cab, Standard

Tires/Steering/Brakes

All Wheel Drive

100% Differential Lock

Hydraulic Boosted Brakes

Tires 26 inch

Engine/Transmission

Engine, C3.6 55.4 kW

Battery, 750 CCA, Standard

Hinged Radiator Pack

Standard Mode

Transmission Neutralizer

Transmission, Four Speed Standard Shift

Controls

Controls, Mechanical Levers

Power Steering, Hydrostatic

Electrical

Display Screen, Soft Key

Product Link Cellular

Reversing Alarm

Stabilizer Alarm

Hydraulics

Variable Displacement Piston Pump

Side Shift Lock

Hydraulic Oil Cooler

Loader Kickout, Float
Loader Kickout, Return to Dig

Booms, Sticks And Linkages

Stick Standard, 4.3 m
Transport Lock, Swing
Transport Lock, Boom

Other Attachments

External Tool Box
Transport Tie Downs

428 Optional Equipment

Cab ROPS And FOPS

Cab, Deluxe

Tires/Steering/Brakes

Tires 28 inch

Engine/Transmission

Engine, C3.6 70 kW
Engine, C3.6 74.4 kW
Battery, 750 CCA, Heavy Duty
Auto Idle
Eco Mode
Standard + Mode
Engine Block Heater
Transmission, Four Speed Powershift (not on 55 kW engine)
Transmission, Six Speed Autoshift (not on 55 kW Engine)
Transmission, Six Speed Autoshift with Lock-Up Torque Converter (not on 55 kW engine)

Controls

Controls, Pilot Hoe Joysticks
Pattern Selector (ISO/SAE)

Electrical

Display Screen, Touchscreen
Product Link, Dual Mode (cellular and satellite)
Beacon, Rotating
Beacon, Strobe

Hydraulics

Hydraulic Quick Disconnects

Hydraulic Lines, One Way
Hydraulic Lines, Two Way
Powered Side Shift
Ride Control
Continuous Flow
Programmable Auxiliary Flow

Booms, Sticks And Linkages

Stick Extending, 4.3 m
Hoe Quick Coupler, Mechanical
Hoe Quick Coupler, Hydraulic
Loader Quick Coupler, Hydraulic

Other Attachments

Counterweight, 115 kg
Counterweight, 240 kg
Counterweight, 460 kg
Front Fenders
Street Pads, Stabilizers