

Product Specifications For 432



Engine

Power - Net	92 hp
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Power	74.4 kW or 82 kW
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Engine - EU Stage V (Standard)

Torque Rise (net)	48% @ 1,500 rpm
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Stroke	4.72 in
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Note (1)	Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
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Displacement	220 in ³
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Net Torque - SAE J1349	322 lbf
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Bore	3.86 in
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Engine	C3.6 74.4 kW Electronic Turbo Intercooled
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Note (2)	No derating required up to 3048 m altitude. Auto derate protects hydraulic and transmission systems.
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Emissions	Meets EU Stage V emission standards.
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Ratings at 2,200 rpm - Gross Power SAE J1995:2014	76 kW/103 hp
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Ratings at 2,200 rpm - Engine Power ISO 14396:2002	74 kW/101 hp
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Net Power Rating @ 2,200 rpm - ISO 9249:2007	68 kW/92 hp
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Net Power Rating @ 2,200 rpm - SAE J1349:2011	68 kW/92 hp
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Engine - EU Stage V (Optional)

Note (1)	Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
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Torque Rise (net)	48% @ 1,500 rpm
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Bore	3.86 in
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Net Torque - SAE J1349	358 ft-lb
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Stroke	4.72 in
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Displacement	220 in ³
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Note (2)	No derating required up to 3048 m altitude. Auto derate protects hydraulic and transmission systems.
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Engine	C3.6 82 kW Electronic Turbo Intercooled
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Emissions	Meets EU Stage V emission standards.
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Net Power Rating @ 2,200 rpm - SAE J1349:2011	76 kW/103 hp
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Ratings at 2,200 rpm - Gross Power SAE J1995:2014	84 kW/114 hp
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Net Power Rating @ 2,200 rpm - ISO 9249:2007	75 kW/102 hp
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Note (3)	Advertised power is tested per the specified standard in effect at the time of manufacture.
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Engine - EU Stage V (Optional) - A

Ratings at 2,200 rpm - Engine Power ISO 14396:2002	82 kW/111 hp
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Transmission

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

Reverse - 1st	3.7 mile/h
Forward - 1st	3.7 mile/h
Forward - 2nd	6.2 mile/h
Reverse - 2nd	8.1 mile/h
Forward - 4th	24.9 mile/h
Reverse - 3rd	17 mile/h
Forward - 3rd	12.4 mile/h

Transmission - Auto-Shift Transmission (Optional)

Forward - 6th	24.9 mile/h
Reverse - 1st	3.7 mile/h
Forward - 1st	3.7 mile/h
Forward - 5th	16.8 mile/h
Forward - 2nd	6.2 mile/h
Forward - 3rd	8.1 mile/h
Reverse - 3rd	17 mile/h

Forward - 4th	12.4 mile/h
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Reverse - 2nd

8.1 mile/h

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

Forward - 1st

3.7 mile/h

Reverse - 3rd

17 mile/h

Reverse - 2nd

8.1 mile/h

Forward - 5th

16.8 mile/h

Forward - 2nd

6.2 mile/h

Forward - 4th

12.4 mile/h

Forward - 6th

24.9 mile/h

Reverse - 1st

3.7 mile/h

Forward - 3rd

8.1 mile/h

Axle Ratings

Rear Axle - Dynamic

22046 lb

Rear Axle - Static

58423 lb

Front Axle - Dynamic

19842 lb

Front Axle - Static

51809 lb

Weights

Operating Weight - Nominal

18671 lb

Operating Weight - Maximum

24251 lb

Operating Weight	18671 lb
Counterweights - Maximum	1014 lb
Operating Weight - Maximum - ROPS Capacity	24251 lb
Ride Control	33 lb
Counterweights - Base	254 lb
Air Conditioning	99 lb
MP Bucket (1.03 m³/1.3 yd³) - without Fold-over Forks	1486 lb
Total Gross Weight Not to Exceed	24251 lb
Minimum Counterweight Recommendations - Standard Stick - Loader Bucket - No QC - MP	0 lb
Power-Shift Transmission	Standard
Minimum Counterweight Recommendations - Standard Stick - Loader Bucket - IT Loader with QC - MP	1014 lb
Cab - ROPS/FOPS	Standard
Minimum Counterweight Recommendations - Standard Stick - Loader Bucket - IT Loader with QC - GP	1014 lb
MP Bucket (1.03 m³/1.3 yd³) - with Fold-over Forks	1896 lb

Minimum Counterweight Recommendations - Extendible Stick - Loader Bucket - IT Loader with QC - MP	1014 lb
Minimum Counterweight Recommendations - Extendible Stick - Loader Bucket - No QC - GP	1014 lb
Minimum Counterweight Recommendations - Standard Stick - Loader Bucket - No QC - GP	529 lb
Minimum Counterweight Recommendations - Extendible Stick - Loader Bucket - No QC - MP	254 lb
Note	Machine Configuration – HRC 74.5 kW engine; 4.3 m standard stick hoe; standard cab with A/C; AWD powershift transmission; 1.03 m ³ 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.
Minimum Counterweight Recommendations - Extendible Stick - Loader Bucket - IT Loader with QC - GP	1014 lb
Counterweights - Mid	529 lb
Loader QC	408 lb
4.3 m Extendible Stick	439 lb
4.9 m Extendible Stick	783 lb

Hydraulic System

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

Steering

AWD Cylinder, One (1) Double Acting - Rod Diameter	1.6 in
Power Steering	Hydrostatic
AWD Cylinder, One (1) Double Acting - Stroke	4.2 in
AWD Cylinder, One (1) Double Acting - Bore	2.6 in
Type	Front Wheel
Turning Circle - AWD (inner wheel not braked) - Outside, Widest Loading Bucket	38.1 ft
Turning Circle - AWD (inner wheel not braked) - Outside, Front Wheels	30.4 ft

Service Refill Capacities

Cooling System - A/C	4.8 gal (US)
Rear Axle	4.2 gal (US)
Engine Oil - With Filter	2.4 gal (US)
Hydraulic Tank	11.1 gal (US)
Rear Axle - Planetaries	0.4 gal (US)
Fuel Tank	42.3 gal (US)

Diesel Exhaust Fluid	5 gal (US)
Hydraulic System	25.1 gal (US)
Front Axle - Planetaries	0.02 gal (US)
Front Axle	2.9 gal (US)

Service Refills Capacities

Transmission (Powershift/Autoshift)	4.18 Gal
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Loader Performance

Breakout Force	12297 ft·lbf
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Operator Station

Controls	Seat Mounted Controls with Dual Mode
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Backhoe Digging Depth

Dig Depth	4778 mm/6150 mm (E-Stick)
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432 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 74.4 kW
 Battery, 750 CCA, Standard
 Hinged Radiator Pack
 Auto Idle
 Eco Mode
 Standard Mode

Standard + Mode
Transmission Neutralizer
Transmission, Four Speed Powershift

Controls

Controls, Electro Hydraulic Seat Mounted
Pattern Selector (ISO/SAE)
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
Continuous Flow
Programmable Auxiliary Flow

Booms, Sticks And Linkages

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

Other Attachments

External Tool Box
Transport Tie Downs

432 Optional Equipment

Cab ROPS And FOPS

Cab, Deluxe

Tires/Steering/Brakes

Tires 28 inch

Engine/Transmission

Engine, C3.6 82 kW
Battery, 750 CCA, Heavy Duty

Engine Block Heater

Transmission, Six Speed Automatic

Transmission, Six Speed Autoshift with Lock-Up Torque Converter

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

Booms, Sticks And Linkages

Stick Extending, 4.3 m

Stick Extending, 4.9 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