



## 5090B

Designed for aggressive digging and fast cycle times, this high performance loading tool delivers the dependability you need to maximize your productivity.

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### 5090B DETAILED SPECIFICATIONS

#### Engine

Engine Model	Cat 3456 ATAAC
Net Power	513 hp / 382 kW
Rated Speed	1800 rpm
Flywheel Power	513 hp / 382 kW
Net Power - ISO 9249	513 hp / 382 kW
Net Power - SAE J1349	513 hp / 382 kW
Net Power - EEC 80/1269	513 hp / 382 kW
Bore	5.51 in / 140 mm
Stroke	6.73 in / 171 mm
Displacement	964 in <sup>3</sup> / 15.8 L

#### Operating Specifications

Operating Weight	201900 lb / 91600 kg
Bucket Capacity - Rock	7.4 yd <sup>3</sup> / 5.7 m <sup>3</sup>
Travel Speed	2.8 mph / 4.5 kph
Max Reach at Ground Level	32.45 ft / 9.89 m

Max Loading Height	24.41 ft / 7.44 m
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### Drive System

Maximum Travel Speed - High	2.8 mph / 4.5 kph
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Maximum Travel Speed - Low	1.75 mph / 2.8 kph
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Maximum Drawbar Pull	133030 lb / 592 kN
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### Hydraulic System - Cylinders

Boom Cylinder - Bore	7 in / 180 mm
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Boom Cylinder - Stroke	55.7 in / 1415 mm
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Stick Cylinder - Bore	8.7 in / 220 mm
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Stick Cylinder - Stroke	73 in / 1855 mm
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Bucket Cylinder - Bore	7 in / 178 mm
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Bucket Cylinder - Stroke	71.3 in / 1810 mm
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Bottom Dump Cylinder - Bore	6.3 in / 160 mm
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Bottom Dump Cylinder - Stroke	10.8 in / 275 mm
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### Hydraulic System - Main/Travel

Main System - Circuit	Closed center load sensing
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Main System - Pump	Piston, variable
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Max Flow at Rated Speed - Total	258 gal/min / 980 L/min
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Relief Valve Setting - Main	4640 psi / 32000 kPa
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Relief Valve Setting - Travel	5075 psi / 35000 kPa
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Number of Main Pumps	2
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### Hydraulic System - Pilot

Pilot System - Circuit	Open center
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Pilot System - Pump	Gear
Max Pump Flow at Rated Speed	23.8 gal/min / 90 L/min
Relief Valve Setting - Controls	595 psi / 4100 kPa
Number of Pilot Pumps	1

### Hydraulic System - Swing

Swing System - Circuit	Open center, load sensing
Swing System - Pump	Piston, variable
Max Pump Flow at Rated Speed - Total	119 gal/min / 450 L/min
Relief Valve Setting - Accelerating	3770 psi / 26000 kPa
Number of Swing Pumps	1

### Swing Mechanism

Swing Speed	6.2 rpm
Swing Torque	191770 lb ft / 260 kN.m
Number of Swing Drives/Motors	2

### Undercarriage

Track Width - Standard	26 in / 650 mm
Track Width - Optional	30 in / 750 mm
Number of Shoes (per side)	47
Number of Rollers (per side)	8
Number of Carrier Rollers (per side)	3

### Service Refill Capacities

Fuel Tank	328 gal / 1240 L
Cooling System	26.7 gal / 101 L

Engine Oil	21.1 gal / 80 L
Swing Drive	5 gal / 19 L
Final Drive (each)	5.5 gal / 21 L
Hydraulic System (incl. tank)	263 gal / 995 L
Hydraulic Tank	214 gal / 810 L

### Standards

Brakes - Travel	SAE J1026 APR90
Cab Sound	ANSI/SAE J1166 OCT98
FOGS	SAE J1356 FEB88 ISO 10262

### Dimensions

Overall Width	11.15 ft / 3400 mm
Tail Swing Radius	15.06 ft / 4590 mm
Upper Structure Width	11.38 ft / 3470 mm
Ground Clearance	2.79 ft / 850 mm
Track Length	19.16 ft / 5840 mm
Track Length on Ground	15.09 ft / 4600 mm
Width to Outside of Tracks	11.15 ft / 3400 mm