NEW HOLLAND

W170B W170B TC W170B LR W190B W190B LR
WHEEL LOADERS

- New Tier III Certified Engine with Four Work Modes
- Advanced Cooling System for Better Cooling & Balance
- Three Configurations — Z-Bar, Tool Carrier, & Long Reach
- Roomy, Comfortable Cab With Outstanding Visibility

NEW HOLLAND CONSTRUCTION

BUILT AROUND YOU

MAXIMUM UPTIME, MAXIMUM PRODUCTIVITY

New Holland wheel loaders are designed to work hard, moving more material per hour to increase your overall productivity. With superior operator comfort and easy maintenance, New Holland wheel loaders make the very most of every hour in the work day.

Efficient hydraulics
- Closed-center, load-sensing hydraulic system delivers fast cycle times and maximum breakout force on demand
- Matches hydraulic output to load requirements for maximum efficiency

Tier III engine with multiple work modes
Four different work modes allow the operator to select a power mode to match machine performance to the specific job to maximize productivity and fuel effieciency.
- Maximum power – performance for extreme conditions
- Standard power – normal loading conditions
- Economy power – lift and carry applications
- Automatic power – automatically matchs the power curve to the application

Best-in-class cab
- Spacious, uncluttered design
- Comfortable seating and low-effort controls
- Outstanding visibility with nearly 50 square feet of seamless glass

Time-saving maintenance
- Reach all daily check points from ground level
- Swing-open, lockable service panels provide quick access to major engine components

W170B Tool Carrier Model
- Extra-fast attachment changes – ideal for multiple applications
- Accurate self leveling for increased productivity when using a pallet fork
- Greater breakout force, reach and visibility

Wide range of attachments for multiple applications:
- General-Purpose Buckets
- Light Materials Buckets
- Multi-Purpose Buckets
- Rock Buckets
- Penetration Buckets
- Pallet Forks

Incredible breakout force allows New Holland wheel loaders to dig into heavy, packed materials.

Standard limited slip axles deliver greater traction while the long wheelbase and short turn radius allow for extra-smooth maneuvering.

Increase your New Holland wheel loader's versatility by mounting attachments on this new coupler. Not only does this beefy coupler provide a superior line of site for great visibility, it's also compatible with the complete line of JRB wheel loader attachments.

	W170B	W170B TC	W170B LR	W190B	W190B LR
Gross horsepower, hp (kW)	195 (145) @ 2000 rpm	195 (145) @ 2000 rpm	195 (145) @ 2000 rpm	227 (169) @ 2000 rpm	227 (169) @ 2000 rpm
Net horsepower, hp (kW)	183 (137) @ 2000 rpm	183 (137) @ 2000 rpm	183 (137) @ 2000 rpm	213 (159) @ 2000 rpm	213 (159) @ 2000 rpm
Peak Torque, gross, lb-ft (N-m)	636 (862) @ 1400 rpm	636 (862) @ 1400 rpm	636 (862) @ 1400 rpm	739 (1002) @ 1400 rpm	739 (1002) @ 1400 rpm
Peak Torque, net, lb-ft (N-m)	605 (821) @ 1400 rpm	605 (821) @ 1400 rpm	605 (821) @ 1400 rpm	712 (966) @ 1400 rpm	712 (966) @ 1400 rpm
Fuel tank capacity, gal (l)	66.9 (253)	66.9 (253)	66.9 (253)	76 (288)	76 (288)

	W170B	W170B TC	W170B LR	W190B	W190B LR
Standard SAE heaped bucket capacity, yd^3 (m^3)	3.0 (2.3)	3.0 (2.3)	3.0 (2.3)	3.44 (2.63)	3.44 (2.63)
Breakout force, lbs (kg)	32,961 (14,951)	32,961 (14,951)	32,961 (14,951)	40,737 (18,478)	41,369 (18,765)
Tipping load, straight w/bucket, lbs (kg)	27,149 (12,315)	27,149 (12,315)	27,149 (12,315)	32,083 (14,553)	25,486 (11,560)
Tipping load, straight w/coupler and 48” utility forks	24,724 (11,215)	24,724 (11,215)	20,763 (9418)	29,154 (13,244)	23,120 (10,487)
Tipping load, 40-degree full turn w/bucket, lbs (kg)	23,556 (10,685)	23,556 (10,685)	23,556 (10,685)	27,769 (12,596)	21,868 (9919)
Tipping load, 40-degree full turn, w/coupler and 48” utility forks	21,336 (9678)	21,336 (9678)	17,786 (8068)	25,091 (11,381)	19,686 (8929)
Hydraulic lifting capacity at ground level, lbs (kg)	29,108 (13,203)	29,108 (13,203)	29,108 (13,203)	35,563 (16,131)	27,081 (12,284)
Reach, 45” dump angle, full height, in (mm)	42.7 (1086)	42.7 (1086)	42.7 (1086)	38.8 (985)	43.2 (1097)

FAST-ACTING, LOAD SENSING HYDRAULICS

Speed and efficiency are built into the hydraulic design of every New Holland wheel loader.

On-demand hydraulic power

- Closed-center, pressure-compensating hydraulic system matches hydraulic output to exact load requirements
- System efficiency results in improved fuel economy, reduced heat generation and increased power to the ground when hydraulics aren't being used
- Dual Rexroth variable-displacement axial piston pumps provide flow and pressure on demand for loader functions
- A steering priority valve assures consistent hydraulic flow for steering

Advantages of Z-bar linkage

- Faster loader cycle time
- Greater tipping load
- Shorter overall length
- Greater visibility to bucket

Advantages of W170B TC parallel lift (Tool Carrier)

- Increased breakout force - 2 cylinders vs. 1
- Greater dump reach - longer loader arms
- Higher hinge pin height
- Less attachment deviation throughout the lift cycle
- Accurate self-leveling allows for easy, smooth pallet fork maneuvering
- Greater visibility to pallet forks

Load Travel Stabilizer
The optional load travel stabilizer (LTS) absorbs shocks and smoothes the ride on rough terrain, for faster travel speeds, and better material retention.

Easy-load buckets

- Knife-like cutting edges penetrate easily into the pile
- High hinge pin position provides better crowding action
- Curved bucket floor for fast, easy filling
- Tapered skid plates on the bucket underside reduce ground drag

New Holland Z-linkage loader design delivers outstanding breakout force.

DURABLE DESIGN AND RELIABLE POWER

Tight deadlines, heavy loads, rough terrain, brutal temperatures, or all of the above – A New Holland wheel loader will match your demands.

More power to the ground
- Engine torque response provides extra power when needed
- Direct fuel injection assures outstanding fuel efficiency

Advanced cooling system design
- Virtually eliminates debris buildup and assures flow of clean, cool air to all cooling components
- A hydraulically driven fan with optional purge feature reduces build up of debris
- Lower component operating temperatures decrease operating costs by reducing fluid breakdown and extending component life
- Mid-mounted cooling system and optimal engine placement

Heavy-duty outboard planetary reduction final drives
- Develop torque at the wheel instead of along the axle
- Reduced axle shaft stress
- Allows independent servicing of one side of the axle shaft

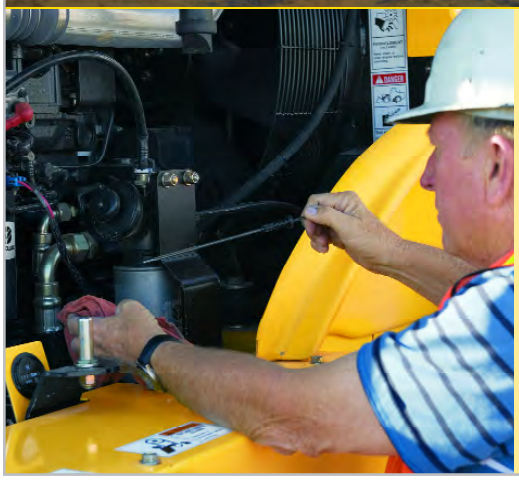
Better traction and control
- Maintenance-free outboard wet disc brakes on all wheels
- Rugged, limited slip differentials keep you moving in the worst conditions by transferring power from the slipping wheel to the wheels with the best traction
- Rear axle oscillates up to 24 degrees for added confidence when working on rough, uneven ground
- Reduced tire spin extends tire life

Reliable articulation joint
- Heavy-duty top and bottom plates
- Double-tapered roller bearings
- High-mount steering cylinders
- Clean hose routing between the front and rear frames

Time-saving servicing
- Sight gauges for transmission and hydraulic fluid levels
- Central environmental fluid drain bank
- 500-hour engine oil change interval
- Maintenance-free driveshaft u-joints
- Extended lubrication intervals for loader linkage pins (50 hours) and articulation joint bearings (1000 hours)

Powerful Tier III engine provides increased torque for more lugging and lifting ability.

Better balance means better performance
New Holland's main frame design incorporates smart weight distribution and convenient service access. The engine, transmission and cooling system are strategically located for optimum weight distribution. A better balanced machine improves lifting performance and provides a better weight-to-horsepower ratio



You can reach all daily check points from ground level, and can easily reach major engine components through lockable, swing-open service doors.

Environmental fluid drains for engine oil, coolant and hydraulic oil, as well as hydraulic diagnostic quick couplers save you valuable time.

Analog instrument gauges are easy to see and read. Engine diagnostics provide warning with a three-level warning light system.

Forward/reverse switch means faster cycle times.

Flat glass provides an unobstructed view to the bucket and the worksite.

COMFORT AND CONVENIENCE EQUAL PRODUCTIVITY

A comfortable operator is more productive. That's why New Holland engineers invest extra time and effort in designing the optimum operator environment.

Outstanding visibility
- Expansive flat glass area provides excellent overall visibility
- No front corner posts to obstruct your view to the front bucket, and the low rear hood and frame design provide better visibility to the rear
- Front and rear washer/wipers and sun curtains are standard

Convenient, automatic shifting
- State-of-the-art 4x3 powershift transmission features a convenient forward/reverse shuttle lever mounted to the left-hand side of the steering wheel
- Simply press a button to switch between manual, and automatic operating modes
  Automatic mode does the shifting for you.
  In manual mode, simply twist the shuttle lever to shift between gears.

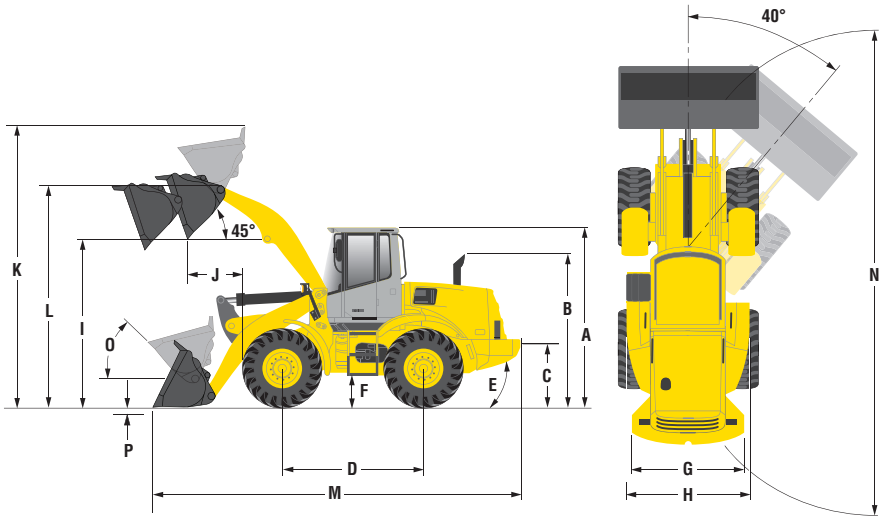
Fingertip loader control
- Choose standard pilot-operated joystick or optional 2-lever or 3-lever fingertip controls – all with fast-cycle forward/reverse switch.

Uncluttered, comfortable cab
- Wide doors for easy entry and exit
- Quiet, roomy interior dimensions
- Seat and tilting steering column adjust to the perfect position
- Cabs are tightly sealed, heavily insulated and isolation-mounted using maintenance-free oil-filled dampeners to keep out dust, dirt, noise and vibration
- A deep, wide, air-ride seat with foldable armrests is optional

Visit your New Holland construction equipment dealer to learn more about New Holland wheel loaders.

W170B Specifications

DIMENSIONS



A.	Height to top of cab, in. (mm)	133.9	(3402)
B.	Height to top of exhaust, in. (mm)	113.5	(2884)
C.	Height to drawbar, in. (mm)	44.3	(1124)
D.	Wheelbase, in. (mm)	128.1	(3253)
E.	Rear departure angle	32°	
	Turning radius-outside of tires, in. (mm)	226.4	(5750)
F.	Ground clearance, in. (mm)	18.7	(476)
G.	Tread width, in. (mm)	79.9	(2030)
H.	Width over tires, in. (mm)	100.9	(2562)

ENGINE

Make & model ..... FPT 667TA/EB3 EPA Tier III Certified
Cylinders 6
Displacement, cu in (l) 411 (6.7)
Bore X stroke, in (mm) ..... 4.09 (104) x 5.20 (132)

Power

Standard
- Rated gross (per SAE J1995), hp (kW) ..... 181 (135) @ 2000 rpm
- Peak gross (per SAE J1995), hp (kW) ..... 182 (136) @ 1900 rpm
- Rated net (per SAEJ1349), hp (kW) ..... 169 (126) @ 2000 rpm
- Peak net (per SAE J1349), hp (kW) ..... 172 (128) @ 1800 rpm

Boosted power
- Rated/peak gross (per SAE J1995, hp (kW) ..... 195 (145) @ 2000 rpm
- Rated/peak net (per SAE J1349), hp (kW) ..... 183 (137) @ 2000 rpm

Economy
- Rated gross (per SAE J1995), hp (kW) ..... 136 (101) @ 2000 rpm
- Peak gross (per SAE J1995), hp (kW) ..... 157 (117) @ 1500 rpm
- Rated net (per SAEJ1349), hp (kW) ..... 124 (93) @ 2000 rpm
- Peak net (per SAE J1349), hp (kW) ..... 149 (111) @ 1500 rpm

Torque, Max.

Standard
- Gross (per SAE J1995), lb-ft (N-m) ..... 625 (847) @ 1400 RPM
- Net (per SAE J1349), lb-ft (N-m) ..... 596 (809) @ 1300 RPM

Boosted
- Gross (per SAE J1995), lb-ft (N-m) ..... 636 (862) @ 1400 RPM
- Net (per SAE J1349), lb-ft (N-m) ..... 605 (821) @ 1400 RPM

Economy
- Gross (per SAE J1995), lb-ft (N-m) ..... 614 (832) @ 1200 RPM
- Net (per SAE J1349), lb-ft (N-m) ..... 590 (800) @ 1200 RPM

Torque rise 25%
Fuel injection ..... Electronic, common rail injection, diesel
Fuel filter ..... Full-flow spin-on cartridge
Lube system ..... Full-flow spin-on cartridge w/ integral cooler
Aspiration ..... Turbocharged, air to air cooled
Air cleaner ..... Dry type elements w/ warning restriction indicator
Advanced cooling system ..... Independent mounted coolers, mid-mounted
Fan, in (mm) ..... Hydraulically driven suction fan, 28 (711) diameter, purge feature optional
Radiator ..... 5 rows, 9 fins/in.

TRANSMISSION

Type ..... Countershaft, power shift
Torque Converter ..... Single-phase, single stage, 2.81:1 stall ratio
Shift Control System ..... Electronic control module, torque sensing, manual or automatic shifting
Control Location ..... Steering column-mounted twist-grip shift lever, auxiliary controls on loader joystick

Travel speeds w/ 20.5 X 25 L3 tires

	Forward	Reverse
Gear 1, mph (km/h)	4.7 (7.6)	5.0 (8.0)
Gear 2, mph (km/h)	8.3 (13.4)	8.7 (14.0)
Gear 3, mph (km/h)	15.3 (24.6)	16.0 (25.8)
Gear 4, mph (km/h)	23.5 (37.8)	

AXLES/BRAKES

Differentials ..... Limited slip, front and rear
Final Drives ..... Heavy-duty outboard planetary reduction
Rear axle oscillation, in (mm) ..... 24 degrees total, 35.4 (899) maximum vertical travel at wheel

Brakes
- Service Brakes ..... Outboard, hydraulically actuated, maintenance-free, multiple wet disc with accumulator, acting on all four wheels. Complies with ISO 3450
- Parking Brake ..... Spring applied, hydraulically released, acting on transmission output shaft

SERVICE CAPACITIES

Fuel tank, gal (l) 66.9 (253)
Engine oil, qt (l) 14 (13.25)
Engine oil / filter, qt (l) 16 (15.1)
Transmission w/ filter, gal (l) 6.75 (25.6)
Cooling system, qt (l) 30 (28.4)
Hydraulic reservoir, gal (l) 24 (90.8)
Hydraulic system, gal (l) 47 (177.8)
Axles (total), each, qt (l)
- Front 32 (30.3)
- Rear 29 (27.4)

ELECTRICAL

Electrical System ..... 24 volt, negative ground w/ 70 amp alternator
Batteries (two 12 volt) ..... 700 CCA; 170 Ah

HYDRAULIC CYLINDERS

Lift cylinders, bore x stroke x rod, in (mm) ..... 5.75 (146) x 24.78 (629.4) x 3.00 (76.2)
Dump cylinder, bore x stroke x rod, in (mm) ..... 4.75 (120.6) x 32.59 (827.9) x 3.00 (76.2)
Steering cylinders, bore x stroke x rod, in (mm) ..... 3.00 (76.2) x 19.09 (481.9) x 2.00 (50.8)

HYDRAULIC SYSTEMS/STEERING

Pump (steering/implement).....Variable Displacement, piston pump
Maximum flow, gpm (l/m)..... 31.6 (120) @ 2000 RPM @ 3,600 psi (24,822 kPa)
Pressure, psi (kPa)..... Loader relief: 3,625 (25,000); steering relief: 3,500 (24,132)
Valves.....Closed-center, load sensing; positive low pressure regeneration for bucket dump
Loader Controls ..... Standard two-function valve; single-or dual lever controls, optional third-function valve; with anuxiliary lever, pilot operated controls with electromagnetic detents for float, raise, and bucket rollback; control lockout

Hydraulic cycle times
- Raise-loaded, sec 5.59
- Dump-loaded..... 1.75
- Lower-empty, power down 3.29
- Lower-empty, float down 3.29

Steering
- Type .....Hydraulic orbital, load sensing, 40 degree center pivot articulation
- Filtration .....10-micron, full flow cartridge filter on return line

PERFORMANCE DATA: PIN ON BUCKETS (see diagram previous page)

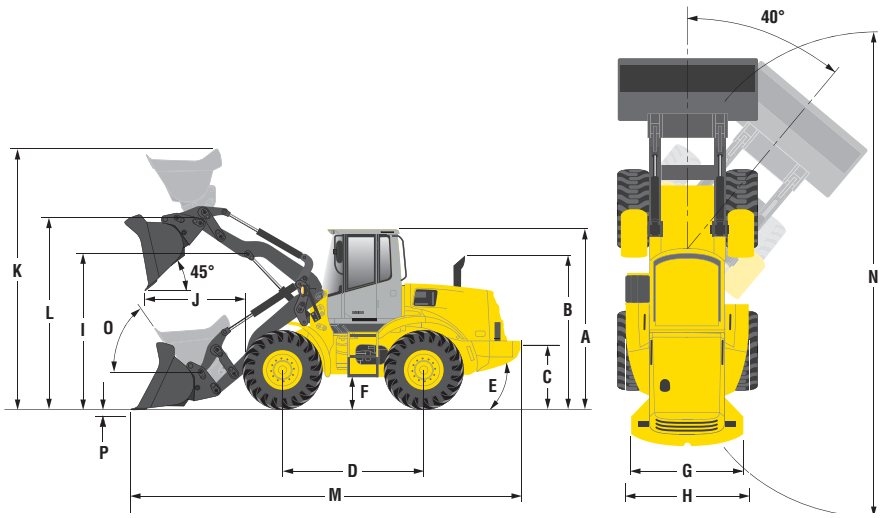
KEY	Bucket Type/Size: General Purpose w/ Bolt-on Edge		General Purpose w/ Teeth and Segments		General Purpose w/ Bolt-on Edge		General Purpose w/ Teeth and Segments		Light Material w/ Bolt-on Edge	
Capacity, heaped (SAE), cu yd (m^3)	3.0	(2.3)	3.0	(2.3)	3.25	(2.5)	3.25	(2.5)	3.5	(2.68)
Capacity, struck (SAE), cu yd (m^3)	2.53	(1.94)	2.53	(1.94)	2.76	(2.11)	2.76	(2.11)	3.01	(2.3)
Bucket width, in (mm)	106.3	(2700)	107.7	(2736)	106.3	(2700)	107.7	(2736)	106.3	(2700)
Bucket weight, lb (kg)	2,506	(1137)	2,699	(1224)	2,615	(1186)	2,807	(1273)	2,772	(1257)
Breakout force, lb (kg)	32,961	(14,951)	32,783	(14,870)	31,433	(14,258)	31,256	(14,178)	29,807	(13,520)
Tipping load, straight, lb (kg)	27,149	(12,315)	26,916	(12,209)	26,982	(12,239)	26,747	(12,132)	26,730	(12,124)
Tipping load @ 40 degree full turn, lb (kg)	23,556	(10,685)	23,323	(10,579)	23,396	(10,612)	23,161	(10,506)	23,157	(10,504)
I. Dump clearance, 45° dump angle-full height, in (mm)	116.7	(2963)	112.8	(2864)	115.4	(2930)	111.4	(2831)	113.8	(2892)
J. Reach, 45° dump angle, full height, in (mm)	42.7	(1086)	46.9	(1191)	44.3	(1125)	48.4	(1231)	46.1	(1171)
Reach, 45° dump angle, 7-ft. (2.13 m) height, in (mm)	64.3	(1633)	66.7	(1693)	65.3	(1658)	67.6	(1717)	66.4	(1686)
K. Overall height, bucket @ full height, in (mm)	203.5	(5169)	203.5	(5169)	205.9	(5229)	205.9	(5229)	208.6	(5298)
L. Hinge pin height, fully raised, in (mm)	156.7	(3980)	156.7	(3980)	156.7	(3980)	156.7	(3980)	156.7	(3980)
M. Overall length, bucket on ground, in (mm)	299.1	(7596)	305	(7747)	301.1	(7648)	307	(7799)	303.5	(7708)
N. Clearance circle, bucket @ carry, in (mm)	496.3	(12,607)	501.1	(12,727)	497.5	(12,636)	502.3	(12,757)	498.8	(12,671)
Hydraulic lifting capacity @ full height, lb (kg)	16,822	(7630)	16,630	(7543)	16,714	(7581)	16,522	(7494)	16,558	(7510)
Hydraulic lifting capacity @ max. reach, lb (kg)	22,683	(10,289)	22,488	(10,200)	22,571	(10,328)	22,375	(10,149)	22,408	(10,164)
Hydraulic lifting capacity @ ground level, lb (kg)	29,108	(13,203)	28,905	(13,111)	28,893	(13,106)	28,692	(13,015)	28,609	(12,977)
Max. dump angle @ full height	55°		55°		55°		55°		55°	
Max.rollback @ full height	57°		57°		57°		57°		57°	
Max rollback @ max reach	54°		54°		54°		54°		54°	
O. Max. rollback @ carry	43°		43°		43°		43°		43°	
Max.rollback @ ground	39°		40°		39°		40°		39°	
P. Digging depth, in (mm)	2.9	(73)	3.2	(81)	2.9	(73)	3.2	(81)	2.9	(73)
Operating weight, lb (kg)	31,100	(14,107)	31,292	(14,194)	31,209	(14,156)	31,401	(14,243)	31,365	(14,277)

PERFORMANCE DATA: COUPLER BUCKETS (see diagram previous page)

KEY	Bucket Type/Size: NH Coupler & General Purpose w/ Bolt-on Edge		NH Coupler General Purpose w/ Teeth & Segments		ACS Coupler General Purpose w/ Bolt-on Edge		ACS Coupler & General Purpose w/ Teeth & Segments	
Capacity, heaped (SAE), cu yd (m^3)	2.94	(2.25)	2.94	(2.25)	2.96	(2.26)	2.96	(2.26)
Capacity, struck (SAE), cu yd (m^3)	2.51	(1.92)	2.51	(1.92)	2.58	(1.97)	2.58	(1.97)
Bucket width, in (mm)	106.3	(2700)	107.2	(2724)	105.6	(2682)	105.6	(2682)
Bucket weight w/coupler, lb (kg)	3,373	(1530)	3,491	(1584)	3,689	(1673)	3,654	(1657)
Breakout force, lb (kg)	27,079	(12,283)	26,957	(12,227)	28,774	(13,052)	26,015	(11,800)
Tipping load, straight, lb (kg)	24,724	(11,215)	24,575	(11,147)	24,896	(11,293)	24,935	(11,310)
Tipping load @ 40 degree full turn, lb (kg)	21,336	(9678)	21,187	(9610)	21,475	(9741)	21,513	(9758)
I. Dump clearance, 45° dump angle-full height, in (mm)	111.1	(2821)	107.3	(2726)	112.2	(2850)	108.4	(2754)
J. Reach, 45° dump angle, full height, in (mm)	49.4	(1254)	53.2	(1351)	47.8	(1214)	51.8	(1316)
Reach, 45° dump angle, 7-ft. (2.13 m) height, in (mm)	68.3	(1736)	70.2	(1783)	67.3	(1709)	69.4	(1763)
K. Overall height, bucket @ full height, in (mm)	209.6	(5323)	209.6	(5323)	209	(5308)	209	(5308)
L. Hinge pin height, fully raised, in (mm)	156.6	(3979)	156.6	(3979)	156.6	(3978)	156.6	(3978)
M. Overall length, bucket on ground, in (mm)	307.8	(7817)	313.4	(7960)	305.9	(7771)	311.7	(7917)
N. Clearance circle, bucket @ carry, in (mm)	501.4	(12,734)	505.6	(12,843)	499.8	(12,696)	503.3	(12,785)
Hydraulic lifting capacity @ full height, lb (kg)	15,963	(7241)	15,845	(7187)	15,603	(7077)	15,638	(7093)
Hydraulic lifting capacity @ max. reach, lb (kg)	21,704	(9845)	21,584	(9790)	21,365	(9691)	21,400	(9707)
Hydraulic lifting capacity @ ground level, lb (kg)	27,001	(12,283)	26,905	(12,204)	27,060	(12,274)	27,120	(12,301)
Max. dump angle @ full height	55°		55°		55°		55°	
Max.rollback @ full height	57°		57°		57°		57°	
Max rollback @ max reach	54°		54°		54°		54°	
O. Max. rollback @ carry	43°		43°		43°		43°	
Max.rollback @ ground	39°		40°		39°		39°	
P. Digging depth, in (mm)	2.9	(74)	3.3	(84)	3.1	(78)	3.4	(86)
Operating weight, lb (kg)	31,967	(14,500)	32,085	(14,553)	32,283	(14,643)	32,248	(14,627)

W170B TC Specifications

DIMENSIONS



A.	Height to top of cab, in. (mm)	133.9	(3402)
B.	Height to top of exhaust, in. (mm)	113.5	(2884)
C.	Height to drawbar, in. (mm)	44.3	(1124)
D.	Wheelbase, in. (mm)	128.1	(3253)
E.	Rear departure angle	32°	
	Turning radius-outside of tires, in. (mm)	226.4	(5750)
F.	Ground clearance, in. (mm)	18.7	(476)
G.	Tread width, in. (mm)	79.9	(2030)
H.	Width over tires, in. (mm)	100.9	(2562)

ENGINE

Make & model ..... FPT 667TA/EB3 EPA Tier III Certified
Cylinders 6
Displacement, cu in (l) 411 (6.7)
Bore X stroke, in (mm) ..... 4.09 (104) x 5.20 (132)

Power

Standard
- Rated gross (per SAE J1995), hp (kW) ..... 181 (135) @ 2000 rpm
- Peak gross (per SAE J1995), hp (kW) ..... 182 (136) @ 1900 rpm
- Rated net (per SAEJ1349), hp (kW) ..... 169 (126) @ 2000 rpm
- Peak net (per SAE J1349), hp (kW) ..... 172 (128) @ 1800 rpm

Boosted power
- Rated/peak gross (per SAE J1995, hp (kW) ..... 195 (145) @ 2000 rpm
- Rated/peak net (per SAE J1349), hp (kW) ..... 183 (137) @ 2000 rpm

Economy
- Rated gross (per SAE J1995), hp (kW) ..... 136 (101) @ 2000 rpm
- Peak gross (per SAE J1995), hp (kW) ..... 157 (117) @ 1500 rpm
- Rated net (per SAEJ1349), hp (kW) ..... 124 (93) @ 2000 rpm
- Peak net (per SAE J1349), hp (kW) ..... 149 (111) @ 1500 rpm

Torque, Max.

Standard
- Gross (per SAE J1995), lb-ft (N-m) ..... 625 (847) @ 1400 RPM
- Net (per SAE J1349), lb-ft (N-m) ..... 596 (809) @ 1300 RPM

Boosted
- Gross (per SAE J1995), lb-ft (N-m) ..... 636 (862) @ 1400 RPM
- Net (per SAE J1349), lb-ft (N-m) ..... 605 (821) @ 1400 RPM

Economy
- Gross (per SAE J1995), lb-ft (N-m) ..... 614 (832) @ 1200 RPM
- Net (per SAE J1349), lb-ft (N-m) ..... 590 (800) @ 1200 RPM

Torque rise 25%
Fuel injection ..... Electronic, common rail injection, diesel
Fuel filter ..... Full-flow spin-on cartridge
Lube system ..... Full-flow spin-on cartridge w/ integral cooler
Aspiration ..... Turbocharged, air to air cooled
Air cleaner ..... Dry type elements w/ warning restriction indicator
Advanced cooling system ..... Independent mounted coolers, mid-mounted
Fan, in (mm) ..... Hydraulically driven suction fan, 28 (711) diameter, purge feature optional
Radiator ..... 5 rows, 9 fins/in.

TRANSMISSION

Type ..... Countershaft, power shift
Torque Converter ..... Single-phase, single stage, 2.81:1 stall ratio
Shift Control System ..... Electronic control module, torque sensing, manual or automatic shifting
Control Location ..... Steering column-mounted twist-grip shift lever, auxiliary controls on loader joystick

Travel speeds w/ 20.5 X 25 L3 tires

	Forward	Reverse
Gear 1, mph (km/h)	4.7 (7.6)	5.0 (8.0)
Gear 2, mph (km/h)	8.3 (13.4)	8.7 (14.0)
Gear 3, mph (km/h)	15.3 (24.6)	16.0 (25.8)
Gear 4, mph (km/h)	23.5 (37.8)	

AXLES/BRAKES

Differentials ..... Limited slip, front and rear
Final Drives ..... Heavy-duty outboard planetary reduction
Rear axle oscillation, in (mm) ..... 24 degrees total, 35.4 (899) maximum vertical travel at wheel

Brakes
- Service Brakes ..... Outboard, hydraulically actuated, maintenance-free, multiple wet disc with accumulator, acting on all four wheels. Complies with ISO 3450
- Parking Brake ..... Spring applied, hydraulically released, acting on transmission output shaft

SERVICE CAPACITIES

Fuel tank, gal (l) 66.9 (253)
Engine oil, qt (l) 14 (13.25)
Engine oil / filter, qt (l) 16 (15.1)
Transmission w/ filter, gal (l) 6.75 (25.6)
Cooling system, qt (l) 30 (28.4)
Hydraulic reservoir, gal (l) 24 (90.8)
Hydraulic system, gal (l) 47 (177.8)
Axles (total), each, qt (l)
- Front 32 (30.3)
- Rear 29 (27.4)

ELECTRICAL

Electrical System ..... 24 volt, negative ground w/ 70 amp alternator
Batteries (two 12 volt) ..... 700 CCA; 170 Ah

HYDRAULIC CYLINDERS

Lift cylinders, bore x stroke x rod, in (mm) ..... 5.75 (146) x 24.78 (629.4) x 3.00 (76.2)
Dump cylinder, bore x stroke x rod, in (mm) ..... 4.75 (120.6) x 32.59 (827.9) x 3.00 (76.2)
Steering cylinders, bore x stroke x rod, in (mm) ..... 3.00 (76.2) x 19.09 (481.9) x 2.00 (50.8)

HYDRAULIC SYSTEMS/STEERING

Pump (steering/implement).....Variable Displacement, piston pump
Maximum flow, gpm (l/m)..... 31.6 (120) @ 2000 RPM @ 3,600 psi (24,822 kPa)
Pressure, psi (kPa)..... Loader relief: 3,625 (25,000); steering relief: 3,500 (24,132)
Valves.....Closed-center, load sensing; positive low pressure regeneration for bucket dump
Loader Controls ..... Standard two-function valve; single-or dual lever controls, optional third-function valve; with anuxiliary lever, pilot operated controls with electromagnetic detents for float, raise, and bucket rollback; control lockout

Hydraulic cycle times
- Raise-loaded, sec 5.59
- Dump-loaded..... 1.94
- Lower-empty, power down 3.29
- Lower-empty, float down 3.29

Steering
- Type .....Hydraulic orbital, load sensing, 40 degree center pivot articulation
- Filtration .....10-micron, full flow cartridge filter on return line

PERFORMANCE DATA: PIN ON BUCKETS (see diagram previous page)

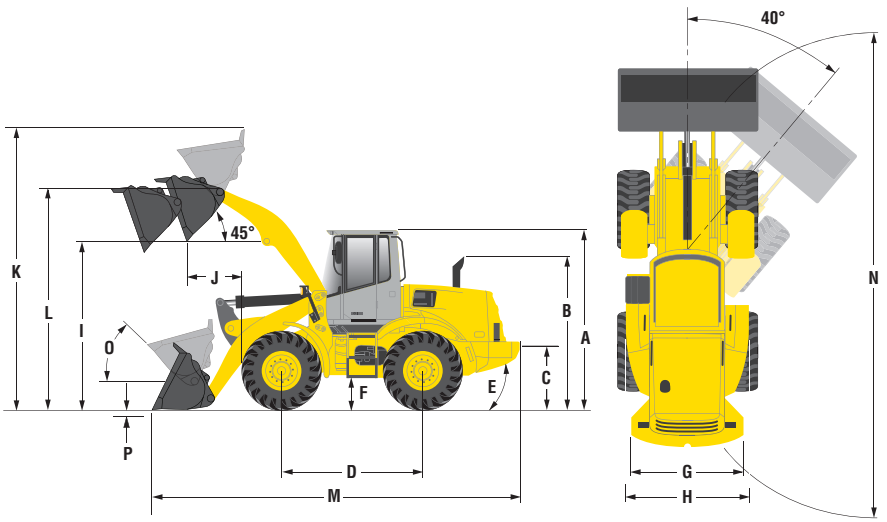
KEY		Bucket Type/Size: General Purpose w/ Bolt-on Edge		Bucket Type/Size: General Purpose w/ Teeth and Segments	
	Capacity, heaped (SAE), cu yd (m^3)	3.0	(2.3)	3.0	(2.3)
	Capacity, struck (SAE), cu yd (m^3)	2.53	(1.94)	2.53	(1.94)
	Bucket width, in (mm)	106.3	(2700)	107.7	(2736)
	Bucket weight, lb (kg)	2,506	(1137)	2,699	(1224)
	Breakout force, lb (kg)	32,961	(14,951)	32,783	(14,870)
	Tipping load, straight, lb (kg)	27,149	(12,315)	26,916	(12,209)
	Tipping load @ 40 degree full turn, lb (kg)	23,556	(10,685)	23,323	(10,579)
I.	Dump clearance, 45° dump angle-full height, in (mm)	116.7	(2963)	112.8	(2864)
J.	Reach, 45° dump angle, full height, in (mm)	42.7	(1086)	46.9	(1191)
	Reach, 45° dump angle, 7-ft. (2.13 m) height, in (mm)	64.3	(1633)	66.7	(1693)
K.	Overall height, bucket @ full height, in (mm)	203.5	(5169)	203.5	(5169)
L.	Hinge pin height, fully raised, in (mm)	156.7	(3980)	156.7	(3980)
M.	Overall length, bucket on ground, in (mm)	299.1	(7596)	305	(7747)
N.	Clearance circle, bucket @ carry, in (mm)	496.3	(12,607)	501.1	(12,727)
	Hydraulic lifting capacity @ full height, lb (kg)	16,822	(7630)	16,630	(7543)
	Hydraulic lifting capacity @ max. reach, lb (kg)	22,683	(10,289)	22,488	(10,200)
	Hydraulic lifting capacity @ ground level, lb (kg)	29,108	(13,203)	28,905	(13,111)
	Max. dump angle @ full height	55°		55°	
	Max.rollback @ full height	57°		57°	
	Max rollback @ max reach	54°		54°	
O.	Max. rollback @ carry	43°		43°	
	Max.rollback @ ground	39°		40°	
P.	Digging depth, in (mm)	2.9	(73)	3.2	(81)
	Operating weight, lb (kg)	31,100	(14,107)	31,292	(14,194)

PERFORMANCE DATA: COUPLER BUCKETS (see diagram previous page)

KEY		Bucket Type/Size: NH Coupler & General Purpose w/ Bolt-on Edge		NH Coupler General Purpose w/ Teeth & Segments		ACS Coupler General Purpose w/ Bolt-on Edge		ACS Coupler & General Purpose w/ Teeth & Segments	
	Capacity, heaped (SAE), cu yd (m^3)	2.94	(2.25)	2.94	(2.25)	2.96	(2.26)	2.96	(2.26)
	Capacity, struck (SAE), cu yd (m^3)	2.51	(1.92)	2.51	(1.92)	2.58	(1.97)	2.58	(1.97)
	Bucket width, in (mm)	106.3	(2700)	107.2	(2724)	105.6	(2682)	105.6	(2682)
	Bucket weight w/coupler, lb (kg)	3,125	(1417)	3,242	(1471)	3,744	(1698)	3,709	(1682)
	Breakout force, lb (kg)	29,172	(13,232)	29,062	(13,182)	28,043	(12,720)	25,544	(11,587)
	Tipping load, straight, lb (kg)	23,425	(10,626)	23,277	(10,558)	22,930	(10,401)	22,969	(10,418)
	Tipping load @ 40 degree full turn, lb (kg)	20,191	(9158)	20,042	(9091)	19,710	(8940)	19,748	(8958)
I.	Dump clearance, 45° dump angle-full height, in (mm)	116.3	(2954)	112.6	(2860)	115.4	(2932)	111.7	(2837)
J.	Reach, 45° dump angle, full height, in (mm)	48.7	(1238)	52.5	(1334)	50.3	(1837)	54.3	(1380)
	Reach, 45° dump angle, 7-ft. (2.13 m) height, in (mm)	71.1	(1806)	73.1	(1858)	72.3	(1837)	74.5	(1892)
K.	Overall height, bucket @ full height, in (mm)	215.8	(5481)	215.8	(5481)	217.9	(5534)	217.9	(5534)
L.	Hinge pin height, fully raised, in (mm)	163.8	(4161)	163.8	(4161)	163.8	(5534)	163.8	(5534)
M.	Overall length, bucket on ground, in (mm)	310.2	(7880)	315.9	(8023)	311.7	(7917)	317.4	(8063)
N.	Clearance circle, bucket @ carry, in (mm)	494.9	(12,571)	498.2	(12,655)	494.8	(12,568)	497.3	(12,631)
	Hydraulic lifting capacity @ full height, lb (kg)	15,133	(6864)	15,003	(6805)	14,590	(6618)	14,626	(6634)
	Hydraulic lifting capacity @ max. reach, lb (kg)	20,356	(9233)	20,234	(9178)	19,754	(8960)	19,789	(8976)
	Hydraulic lifting capacity @ ground level, lb (kg)	29,263	(13,273)	29,037	(13,171)	28,724	(13,029)	28,668	(13,003)
	Max. dump angle @ full height	55°		55°		55°		55°	
	Max.rollback @ full height	58°		58°		58°		58°	
	Max rollback @ max reach	54°		54°		54°		54°	
O.	Max. rollback @ carry	58°		58°		58°		58°	
	Max.rollback @ ground	58°		58°		58°		58°	
P.	Digging depth, in (mm)	3.4	(87)	3.8	(97)	3.0	(77)	3.4	(85)
	Operating weight, lb (kg)	31,944	(14,490)	32,062	(14,543)	32,564	(14,771)	32,529	(14,755)

W170B LR Specifications

DIMENSIONS



A.	Height to top of cab, in. (mm)	133.9	(3402)
B.	Height to top of exhaust, in. (mm)	113.5	(2884)
C.	Height to drawbar, in. (mm)	44.3	(1124)
D.	Wheelbase, in. (mm)	128.1	(3253)
E.	Rear departure angle	32°	
	Turning radius-outside of tires, in. (mm)	226.4	(5750)
F.	Ground clearance, in. (mm)	18.7	(476)
G.	Tread width, in. (mm)	79.9	(2030)
H.	Width over tires, in. (mm)	100.9	(2562)

ENGINE

Make & model ..... FPT 667TA/EB3 EPA Tier III Certified
Cylinders 6
Displacement, cu in (l) 411 (6.7)
Bore X stroke, in (mm) ..... 4.09 (104) x 5.20 (132)

Power

Standard
- Rated gross (per SAE J1995), hp (kW) ..... 181 (135) @ 2000 rpm
- Peak gross (per SAE J1995), hp (kW) ..... 182 (136) @ 1900 rpm
- Rated net (per SAEJ1349), hp (kW) ..... 169 (126) @ 2000 rpm
- Peak net (per SAE J1349), hp (kW) ..... 172 (128) @ 1800 rpm

Boosted power
- Rated/peak gross (per SAE J1995, hp (kW) ..... 195 (145) @ 2000 rpm
- Rated/peak net (per SAE J1349), hp (kW) ..... 183 (137) @ 2000 rpm

Economy
- Rated gross (per SAE J1995), hp (kW) ..... 136 (101) @ 2000 rpm
- Peak gross (per SAE J1995), hp (kW) ..... 157 (117) @ 1500 rpm
- Rated net (per SAEJ1349), hp (kW) ..... 124 (93) @ 2000 rpm
- Peak net (per SAE J1349), hp (kW) ..... 149 (111) @ 1500 rpm

Torque, Max.

Standard
- Gross (per SAE J1995), lb-ft (N-m) ..... 625 (847) @ 1400 RPM
- Net (per SAE J1349), lb-ft (N-m) ..... 596 (809) @ 1300 RPM

Boosted
- Gross (per SAE J1995), lb-ft (N-m) ..... 636 (862) @ 1400 RPM
- Net (per SAE J1349), lb-ft (N-m) ..... 605 (821) @ 1400 RPM

Economy
- Gross (per SAE J1995), lb-ft (N-m) ..... 614 (832) @ 1200 RPM
- Net (per SAE J1349), lb-ft (N-m) ..... 590 (800) @ 1200 RPM

Torque rise 25%
Fuel injection ..... Electronic, common rail injection, diesel
Fuel filter ..... Full-flow spin-on cartridge
Lube system ..... Full-flow spin-on cartridge w/ integral cooler
Aspiration ..... Turbocharged, air to air cooled
Air cleaner ..... Dry type elements w/ warning restriction indicator
Advanced cooling system ..... Independent mounted coolers, mid-mounted
Fan, in (mm) ..... Hydraulically driven suction fan, 28 (711) diameter, purge feature optional
Radiator ..... 5 rows, 9 fins/in.

TRANSMISSION

Type ..... Countershaft, power shift
Torque Converter ..... Single-phase, single stage, 2.81:1 stall ratio
Shift Control System ..... Electronic control module, torque sensing, manual or automatic shifting
Control Location ..... Steering column-mounted twist-grip shift lever, auxiliary controls on loader joystick

Travel speeds w/ 20.5 X 25 L3 tires

	Forward	Reverse
Gear 1, mph (km/h)	4.7 (7.6)	5.0 (8.0)
Gear 2, mph (km/h)	8.3 (13.4)	8.7 (14.0)
Gear 3, mph (km/h)	15.3 (24.6)	16.0 (25.8)
Gear 4, mph (km/h)	23.5 (37.8)	

AXLES/BRAKES

Differentials ..... Limited slip, front and rear
Final Drives ..... Heavy-duty outboard planetary reduction
Rear axle oscillation, in (mm) ..... 24 degrees total, 35.4 (899) maximum vertical travel at wheel

Brakes
- Service Brakes ..... Outboard, hydraulically actuated, maintenance-free, multiple wet disc with accumulator, acting on all four wheels. Complies with ISO 3450
- Parking Brake ..... Spring applied, hydraulically released, acting on transmission output shaft

SERVICE CAPACITIES

Fuel tank, gal (l) 66.9 (253)
Engine oil, qt (l) 14 (13.25)
Engine oil / filter, qt (l) 16 (15.1)
Transmission w/ filter, gal (l) 6.75 (25.6)
Cooling system, qt (l) 30 (28.4)
Hydraulic reservoir, gal (l) 24 (90.8)
Hydraulic system, gal (l) 47 (177.8)
Axles (total), each, qt (l)
- Front 32 (30.3)
- Rear 29 (27.4)

ELECTRICAL

Electrical System ..... 24 volt, negative ground w/ 70 amp alternator
Batteries (two 12 volt) ..... 700 CCA; 170 Ah

HYDRAULIC CYLINDERS

Lift cylinders, bore x stroke x rod, in (mm) ..... 5.75 (146) x 24.78 (629.4) x 3.00 (76.2)
Dump cylinder, bore x stroke x rod, in (mm) ..... 4.75 (120.6) x 32.59 (827.9) x 3.00 (76.2)
Steering cylinders, bore x stroke x rod, in (mm) ..... 3.00 (76.2) x 19.09 (481.9) x 2.00 (50.8)

HYDRAULIC SYSTEMS/STEERING

Pump (steering/implement)..... Variable Displacement, piston pump
Maximum flow, gpm (l/m)..... 31.6 (120) @ 2000 RPM @ 3,600 psi (24,822 kPa)
Pressure, psi (kPa)..... Loader relief: 3,625 (25,000); steering relief: 3,500 (24,132)
Valves..... Closed-center, load sensing; positive low pressure regeneration for bucket dump
Loader Controls ..... Standard two-function valve; single-or dual lever controls, optional third-function valve; with anuxiliary lever, pilot operated controls with electromagnetic detents for float, raise, and bucket rollback; control lockout

Hydraulic cycle times
- Raise-loaded, sec 5.59
- Dump-loaded 1.75
- Lower-empty, power down 3.29
- Lower-empty, float down 3.29

Steering
- Type ..... Hydraulic orbital, load sensing, 40 degree center pivot articulation
- Filtration ..... 10-micron, full flow cartridge filter on return line

PERFORMANCE DATA: PIN ON BUCKETS (see diagram previous page)

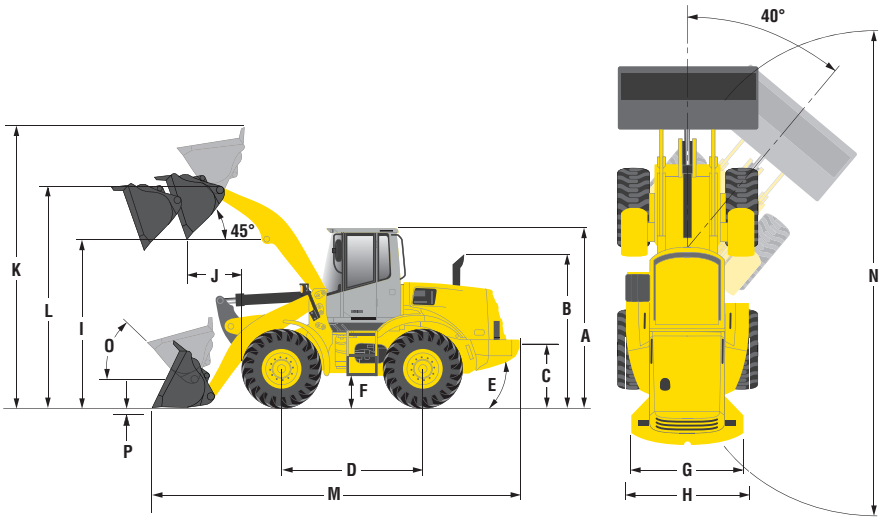
KEY	Bucket Type/Size							
	General Purpose w/ Bolt-on Edge	General Purpose w/ Teeth and Segments	Excavating Bucket w/ Bolt-on Edge	Excavating Bucket w/ Teeth and Segments	General Purpose w/ Bolt-on Edge	General Purpose w/ Teeth and Segments	Light Material w/ Bolt-on Edge
Capacity, heaped (SAE), cu yd (m^3)	3.0 (2.3)	3.0 (2.3)	3.01 (2.30)	3.01 (2.30)	3.25 (2.49)	3.25 (2.49)	3.50 (2.68)
Capacity, struck (SAE), cu yd (m^3)	2.53 (1.94)	2.53 (1.94)	2.53 (1.94)	2.53 (1.94)	2.76 (2.11)	2.76 (2.11)	3.01 (2.30)
Bucket width, in (mm)	106.3 (2700)	107.7 (2736)	106.3 (2700)	107.7 (2736)	106.3 (2700)	107.7 (2736)	106.3 (2700)
Bucket weight, lb (kg)	2,506 (1137)	2,699 (1224)	2,506 (1137)	2,699 (1224)	2,615 (1186)	2,807 (1273)	2,823 (1280)
Breakout force, lb (kg)	32,961 (14,951)	32,783 (14,870)	32,778 (14,868)	32,608 (14,791)	31,258 (14,179)	31,089 (14,102)	29,615 (13,433)
Tipping load, straight, lb (kg)	27,149 (12,315)	26,916 (12,209)	22,811 (10,347)	22,583 (10,243)	22,652 (10,275)	22,423 (10,171)	22,367 (10,145)
Tipping load @ 40 degree full turn, lb (kg)	23,556 (10,685)	23,323 (10,579)	19,672 (8923)	19,444 (8819)	19,519 (8854)	19,290 (8750)	19,245 (8729)
I. Dump clearance, 45° dump angle-full height, in (mm)	116.7 (2963)	112.8 (2864)	132.2 (3358)	128.3 (3258)	130.9 (3324)	127.0 (3225)	129.4 (3286)
J. Reach, 45° dump angle, full height, in (mm)	42.7 (1086)	46.9 (1191)	42.8 (1087)	46.9 (1192)	44.3 (1126)	48.5 (1231)	46.1 (1172)
Reach, 45° dump angle, 7-ft. (2.13 m) height, in (mm)	64.3 (1633)	66.7 (1693)	76.4 (1942)	79.0 (2007)	77.5 (1968)	80.0 (2032)	78.7 (1998)
K. Overall height, bucket @ full height, in (mm)	203.5 (5169)	203.5 (5169)	219.0 (5564)	219.0 (5564)	221.4 (5623)	221.4 (5623)	224.1 (5692)
L. Hinge pin height, fully raised, in (mm)	156.7 (3980)	156.7 (3980)	172.2 (4374)	172.2 (4374)	172.2 (4374)	172.2 (4374)	172.2 (4374)
M. Overall length, bucket on ground, in (mm)	299.1 (7596)	305 (7747)	313.2 (7955)	319.1 (8105)	315.2 (8006)	321.1 (8156)	317.6 (8066)
N. Clearance circle, bucket @ carry, in (mm)	496.3 (12,607)	501.1 (12,727)	508.7 (12,922)	514.0 (13,055)	510.1 (12,956)	515.3 (13,090)	511.6 (12,996)
Hydraulic lifting capacity:							
@ full height, lb (kg)	16,822 (7630)	16,630 (7543)	15,623 (7086)	15,431 (7000)	15,515 (7037)	15,323 (6950)	15,307 (6943)
@ max. reach, lb (kg)	22,683 (10,289)	22,488 (10, 200)	20,224 (9173)	20,028 (9085)	20,111 (9122)	19,916 (9034)	19,897 (9025)
@ ground level, lb (kg)	29,108 (13,203)	28,905 (13,111)	24,241 (10,996)	24,036 (10,903)	24,047 (10,907)	23,843 (10,815)	23,738 (10,768)
Max. dump angle @ full height	55°	55°	55°	55°	55°	55°	55°
Max.rollback @ full height	57°	57°	57°	57°	57°	57°	57°
Max rollback @ max reach	54°	54°	53°	53°	53°	53°	53°
O. Max. rollback @ carry	43°	43°	41°	41°	41°	41°	41°
Max.rollback @ ground	39°	40°	37°	37°	37°	37°	37°
P. Digging depth, in (mm)	2.9 (73)	3.2 (81)	3.0 (76)	3.3 (84)	3.0 (76)	3.3 (84)	3.0 (76)
Operating weight, lb (kg)	31,100 (14,107)	31,292 (14,194)	31,852 (14,448)	32,044 (14,535)	31,961 (14,497)	32,153 (14,584)	32,168 (14,591)

PERFORMANCE DATA: COUPLER BUCKETS (see diagram previous page)

KEY	Bucket Type/Size			
	NH Coupler & General Purpose w/ Bolt-on Edge	NH Coupler General Purpose w/ Teeth & Segments	ACS Coupler General Purpose w/ Bolt-on Edge	ACS Coupler & General Purpose w/ Teeth & Segments
Capacity, heaped (SAE), cu yd (m^3)	2.94 (2.25)	2.94 (2.25)	2.96 (2.26)	2.96 (2.26)
Capacity, struck (SAE), cu yd (m^3)	2.51 (1.92)	2.51 (1.92)	2.58 (1.97)	2.58 (1.97)
Bucket width, in (mm)	106.3 (2700)	107.2 (2724)	105.6 (2682)	105.6 (2682)
Bucket weight w/coupler, lb (kg)	3,373 (1530)	3,491 (1584)	3,689 (1673)	3,654 (1657)
Breakout force, lb (kg)	26,926 (12,213)	26,812 (12,162)	28,607 (12,976)	25,871 (11,735)
Tipping load, straight, lb (kg)	20,763 (9418)	20,618 (9352)	20,832 (9449)	20,870 (9467)
Tipping load @ 40 degree full turn, lb (kg)	17,786 (8068)	17,641 (8002)	17,830 (8088)	17,868 (8105)
I. Dump clearance, 45° dump angle-full height, in (mm)	126.6 (3215)	122.9 (3121)	127.7 (3244)	123.9 (3148)
J. Reach, 45° dump angle, full height, in (mm)	49.4 (1255)	53.2 (1352)	47.8 (1215)	51.8 (1317)
Reach, 45° dump angle, 7-ft. (2.13 m) height, in (mm)	80.8 (2052)	82.9 (2105)	79.7 (2024)	82.0 (2083)
K. Overall height, bucket @ full height, in (mm)	225.1 (5717)	225.1 (5717)	224.5 (5702)	224.5 (5702)
L. Hinge pin height, fully raised, in (mm)	172.2 (4373)	172.2 (4373)	172.1 (4373)	172.1 (4373)
M. Overall length, bucket on ground, in (mm)	321.9 (8176)	327.4 (8317)	320.0 (8128)	325.7 (8274)
N. Clearance circle, bucket @ carry, in (mm)	514.6 (13,070)	519.3 (13,191)	512.9 (13,028)	516.9 (13,130)
Hydraulic lifting capacity @ full height, lb (kg)	14,768 (6699)	14,651 (6645)	14,407 (6535)	14,442 (6551)
Hydraulic lifting capacity @ max. reach, lb (kg)	19,257 (8735)	19,136 (8680)	18,915 (8580)	18,951 (8596)
Hydraulic lifting capacity @ ground level, lb (kg)	22,434 (10,176)	22,325 (10,126)	22,422 (10,170)	22,472 (10,193)
Max. dump angle @ full height	55°	55°	55°	55°
Max.rollback @ full height	57°	57°	56°	56°
Max rollback @ max reach	53°	53°	52°	52°
O. Max. rollback @ carry	41°	41°	41°	41°
Max.rollback @ ground	37°	37°	37°	37°
P. Digging depth, in (mm)	3.0 (77)	3.4 (87)	3.2 (81)	3.5 (89)
Operating weight, lb (kg)	32,719 (14,841)	32,837 (14,894)	33,035 (14,984)	33,000 (14,968)

W190B Specifications

DIMENSIONS



A.	Height to top of cab, in. (mm)	136.5	(3450)
B.	Height to top of exhaust, in. (mm)	116.7	(2963)
C.	Height to drawbar, in. (mm)	42.1	(1071)
D.	Wheelbase, in. (mm)	131.5	(3340)
E.	Rear departure angle	33°	
	Turning radius-outside of tires, in. (mm)	237.5	(6032)
F.	Ground clearance, in. (mm)	16.4	(415.8)
G.	Tread width, in. (mm)	87.8	(2230)
H.	Width over tires, in. (mm)	113.6	(2885)

ENGINE

Make & model ..... FPT 667TA/EBD EPA Tier III Certified
Cylinders 6
Displacement, cu in (l) 411 (6.7)
Bore X stroke, in (mm) ..... 4.09 (104) x 5.20 (132)

Power

Standard
- Rated gross (per SAE J1995), hp (kW) ..... 209 (156) @ 2000 rpm
- Peak gross (per SAE J1995), hp (kW) ..... 210 (157) @ 1800 rpm
- Rated net (per SAEJ1349), hp (kW) ..... 195 (145) @ 2000 rpm
- Peak net (per SAE J1349), hp (kW) ..... 198 (148) @ 1800 rpm

Boosted power
- Rated/peak gross (per SAE J1995, hp (kW) ..... 227 (169) @ 2000 rpm
- Rated/peak net (per SAE J1349), hp (kW) ..... 213 (159) @ 2000 rpm

Economy
- Rated gross (per SAE J1995), hp (kW) ..... 177 (132) @ 2000 rpm
- Peak gross (per SAE J1995), hp (kW) ..... 190 (142) @ 1500 rpm
- Rated net (per SAEJ1349), hp (kW) ..... 163 (122) @ 2000 rpm
- Peak net (per SAE J1349), hp (kW) ..... 181 (135) @ 1500 rpm

Torque, Max.

Standard
- Gross (per SAE J1995), lb-ft (N-m) ..... 724 (982) @ 1400 RPM
- Net (per SAE J1349), lb-ft (N-m) ..... 701 (950) @ 1300 RPM

Boosted
- Gross (per SAE J1995), lb-ft (N-m) ..... 739 (1002) @ 1400 RPM
- Net (per SAE J1349), lb-ft (N-m) ..... 712 (966) @ 1400 RPM

Economy
- Gross (per SAE J1995), lb-ft (N-m) ..... 712 (966) @ 1200 RPM
- Net (per SAE J1349), lb-ft (N-m) ..... 693 (940) @ 1200 RPM

Governor ..... Electronic control
Torque rise 33%
Fuel injection ..... Direct injection, diesel
Fuel filter ..... Full-flow spin-on cartridge
Lube system ..... Full-flow spin-on cartridge w/ integral cooler
Aspiration ..... Turbocharged, air to air cooled
Air cleaner ..... Dry type elements w/ warning restriction indicator
Advanced cooling system ..... Independent mounted coolers, mid-mounted
Fan, in (mm) ..... Hydraulically driven suction fan, 28 (711) diameter, purge feature optional
Radiator ..... 5 rows, 9 fins/in.

TRANSMISSION

Type ..... Countershaft, power shift
Torque Converter ..... Single-phase, single stage, 2.81:1 stall ratio
Shift Control System ..... Electronic control module, torque sensing, manual or automatic shifting
Control Location ..... Steering column-mounted twist-grip shift lever, auxiliary controls on loader joystick

Travel speeds w/ 23.5 X 25 L3 tires

	Forward	Reverse
Gear 1, mph (km/h)	4.4 (7.1)	4.9 (7.9)
Gear 2, mph (km/h)	7.8 (12.6)	8.6 (13.8)
Gear 3, mph (km/h)	14.5 (23.3)	15.7 (25.3)
Gear 4, mph (km/h)	23.0 (37.0)	

AXLES/BRAKES

Differentials ..... Limited slip, front and rear
Final Drives ..... Heavy-duty outboard planetary reduction
Rear axle oscillation, in (mm) ..... 24 degrees total, 15.2 (386) maximum vertical travel at wheel

Brakes
- Service Brakes ..... Outboard, hydraulically actuated, maintenance-free, multiple wet disc with accumulator, acting on all four wheels. Complies with ISO 3450
- Parking Brake ..... Spring applied, hydraulically released, acting on transmission output shaft

SERVICE CAPACITIES

Fuel tank, gal (l) 76 (288)
Engine oil, qt (l) 13 (12.3)
Engine oil / filter, qt (l) 14 (13.25)
Transmission w/ filter, gal (l) 36 (34.1)
Cooling system, qt (l) 10 (38)
Hydraulic reservoir, gal (l) 24 (90.8)
Hydraulic system, gal (l) 47 (178)
Axles (total), each, qt (l)
- Front 39.5 (37.4)
- Rear 25 (23.7)

ELECTRICAL

Electrical System ..... 24 volt, negative ground w/ 70 amp alternator
Batteries (two 12 volt) ..... 700 CCA; 170 Ah

HYDRAULIC CYLINDERS

Lift cylinders, bore x stroke x rod, in (mm) ..... 5.25 (133.4) x 33.3 (845.7) x 3.00 (76.2)
Dump cylinder, bore x stroke x rod, in (mm) ..... 6.50 (165.1) x 23.61 (599.6) x 3.50 (88.9)
Steering cylinders, bore x stroke x rod, in (mm) ..... 3.25 (82.6) x 18.97 (481.9) x 1.75 (44.5)

HYDRAULIC SYSTEMS/STEERING

Pump (steering/implement) ..... Variable Displacement, piston pump
Maximum flow, gpm (l/m) ..... 31.6 (120) @ 2000 RPM @ 3,600 psi (24,822 kPa)
Pressure, psi (kPa) ..... Loader relief: 3,625 (25,000); steering relief: 3,500 (24,132)
Valves ..... Closed-center, load sensing; positive low pressure regeneration for bucket dump
Loader Controls ..... Standard two-function valve; single-or dual lever controls, optional third-function valve; with anuxiliary lever, pilot operated controls with electromagnetic detents for float, raise, and bucket rollback; control lockout
Raise-loaded, sec 5.64
Dump-loaded 1.16
Lower-empty, power down 2.76
Lower-empty, float down 2.17
Steering
Type ..... Hydraulic orbital, load sensing, 40 degree center pivot articulation
Filtration ..... 10-micron, full flow cartridge filter on return line

PERFORMANCE DATA: PIN ON BUCKETS (see diagram previous page)

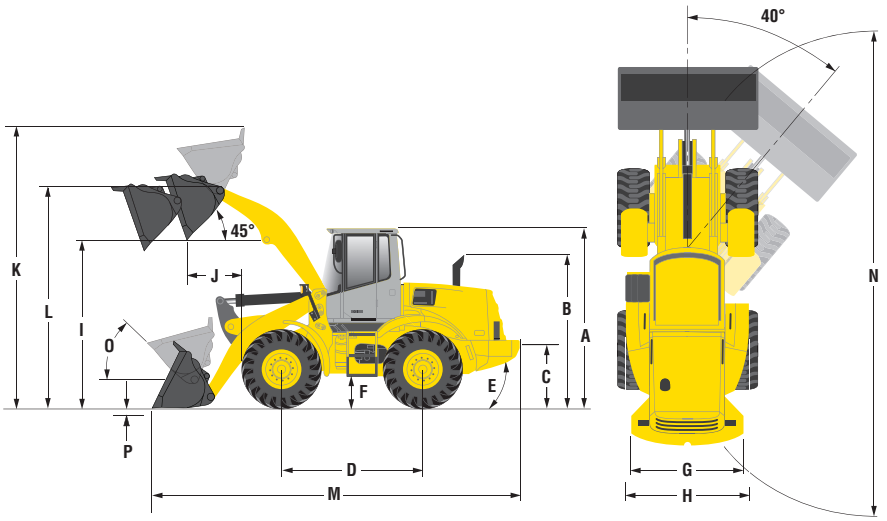
KEY	Bucket Type/Size									
	General Purpose w/ Bolt-on Edge		General Purpose w/ Teeth and Segments		Medium Density w/ Bolt-on Edge		Medium Density w/ Teeth and Segments		Light Material w/ Bolt-on Edge	
Capacity, heaped (SAE), cu yd (m^3)	3.44	(2.63)	3.44	(2.63)	4.15	(3.17)	4.15	(3.17)	4.43	(3.39)
Capacity, struck (SAE), cu yd (m^3)	2.90	(2.22)	2.90	(2.22)	3.54	(2.71)	3.54	(2.71)	3.78	(2.89)
Bucket width, in (mm)	115.3	(2929)	120.0	(3049)	115.3	(2929)	120.0	(3049)	115.3	(2929)
Bucket weight, lb (kg)	3,107	(1410)	3,225	(1463)	3,442	(1561)	3,560	(1615)	3,508	(1591)
Breakout force, lb (kg)	40,737	(18,478)	36,331	(16,480)	35,407	(16,060)	31,976	(14,504)	34,415	(15,610)
Tipping load, straight, lb (kg)	32,083	(14,553)	31,930	(14,483)	31,544	(14,308)	31,387	(14,237)	31,281	(14,189)
Tipping load @ 40 degree full turn, lb (kg)	27,769	(12,596)	27,616	(12,526)	27,253	(12,362)	27,095	(12,290)	27,015	(12,254)
I. Dump clearance, 45° dump angle-full height, in (mm)	121.5	(3087)	118.1	(3000)	117.5	(2984)	114.1	(2897)	116.6	(2962)
J. Reach, 45° dump angle, full height, in (mm)	38.8	(985)	42.8	(1088)	43.6	(1107)	47.6	(1210)	44.6	(1133)
Reach, 45° dump angle, 7-ft. (2.13 m) height, in (mm)	64.0	(1626)	66.6	(1691)	67.0	(1703)	69.5	(1764)	67.7	(1719)
K. Overall height, bucket @ full height, in (mm)	210.1	(5337)	210.1	(5337)	216.4	(5496)	216.4	(5496)	217.7	(5531)
L. Hinge pin height, fully raised, in (mm)	162.3	(4124)	162.3	(4124)	162.3	(4123)	162.3	(4123)	162.3	(4123)
M. Overall length, bucket on ground, in (mm)	303.1	(7699)	308.4	(7834)	309.4	(7859)	314.7	(7993)	310.8	(7893)
N. Clearance circle, bucket @ carry, in (mm)	515.6	(13,097)	522.9	(13,282)	519.1	(13,186)	526.5	(13,374)	519.9	(13,206)
Hydraulic lifting capacity @ full height, lb (kg)	20,729	(9402)	20,610	(9348)	20,391	(9249)	20,271	(9195)	20,321	(9217)
Hydraulic lifting capacity @ max. reach, lb (kg)	27,454	(12,453)	27,332	(12,398)	27,101	(12,293)	26,979	(12,238)	27,018	(12,255)
Hydraulic lifting capacity @ ground level, lb (kg)	35,563	(16,131)	35,432	(16,072)	35,064	(15,905)	34,930	(15,844)	34,832	(15,800)
Max. dump angle @ full height	55°		55°		55°		55°		55°	
Max.rollback @ full height	59°		59°		59°		59°		59°	
Max rollback @ max reach	54°		54°		54°		54°		54°	
O. Max. rollback @ carry	44°		44°		44°		44°		44°	
Max.rollback @ ground	41°		41°		41°		41°		41°	
P. Digging depth, in (mm)	2.9	(74)	2.9	(74)	2.9	(75)	2.9	(75)	2.9	(75)
Operating weight, lb (kg)	37,844	(17,166)	37,962	(17,219)	38,178	(17,317)	38,296	(17,371)	38,245	(17,347)

PERFORMANCE DATA: COUPLER BUCKETS (see diagram previous page)

KEY	Bucket Type/Size							
	NH Coupler & General Purpose w/ Bolt-on Edge		General Purpose w/ Teeth & Segments		ACS Coupler & General Purpose w/ Bolt-on Edge		ACS Coupler & General Purpose w/ Teeth & Segments	
Capacity, heaped (SAE), cu yd (m^3)	3.44	(2.63)	3.44	(2.63)	3.77	(2.88)	3.77	(2.88)
Capacity, struck (SAE), cu yd (m^3)	2.88	(2.20)	2.88	(2.20)	3.17	(2.42)	3.17	(2.42)
Bucket width, in (mm)	119.3	(3030)	120.6	(3063)	119.3	(3030)	120.0	(3048)
Bucket weight w/coupler, lb (kg)	4,221	(1915)	4,425	(2007)	4,338	(1968)	4,514	(2047)
Breakout force, lb (kg)	32,919	(14,932)	34,581	(15,686)	34,785	(15,778)	31,191	(14,148)
Tipping load, straight, lb (kg)	29,154	(13,224)	28,909	(13,113)	29,962	(13,590)	29,731	(13,486)
Tipping load @ 40 degree full turn, lb (kg)	25,091	(11,381)	24,846	(11,270)	25,780	(11,694)	25,549	(11,589)
I. Dump clearance, 45° dump angle-full height, in (mm)	115.3	(2929)	111.3	(2827)	117.2	(2978)	113.4	(2879)
J. Reach, 45° dump angle, full height, in (mm)	46.1	(1172)	50.8	(1291)	45.7	(1161)	49.8	(1265)
Reach, 45° dump angle, 7-ft. (2.13 m) height, in (mm)	68.6	(1742)	71.2	(1809)	69.1	(1754)	71.2	(1810)
K. Overall height, bucket @ full height, in (mm)	215.8	(5482)	215.8	(5482)	214.8	(5455)	214.8	(5455)
L. Hinge pin height, fully raised, in (mm)	162.3	(4122)	162.3	(4122)	162.3	(4123)	162.3	(4123)
M. Overall length, bucket on ground, in (mm)	312.7	(7944)	318.9	(8101)	309.8	(7869)	315.7	(8019)
N. Clearance circle, bucket @ carry, in (mm)	524.7	(13,327)	529.5	(13,450)	523.0	(13,284)	527.1	(13,388)
Hydraulic lifting capacity @ full height, lb (kg)	19,571	(8877)	19,365	(8784)	19,481	(8836)	19,303	(8756)
Hydraulic lifting capacity @ max. reach, lb (kg)	26,176	(11,873)	25,967	(11,779)	26,150	(11,861)	25,968	(11,779)
Hydraulic lifting capacity @ ground level, lb (kg)	33,407	(15,153)	33,193	(15,046)	33,786	(15,325)	33,613	(15,246)
Max. dump angle @ full height	55°		55°		55°		55°	
Max.rollback @ full height	59°		59°		59°		59°	
Max rollback @ max reach	54°		54°		54°		54°	
O. Max. rollback @ carry	44°		44°		44°		44°	
Max.rollback @ ground	41°		41°		41°		42°	
P. Digging depth, in (mm)	3.0	(76)	3.0	(76)	2.8	(72)	3.2	(81)
Operating weight, lb (kg)	38,957	(17,671)	39,162	(17,763)	39,074	(17,724)	39,250	(17,804)

W190B LR Specifications

DIMENSIONS



A.	Height to top of cab, in. (mm)	136.5	(3450)
B.	Height to top of exhaust, in. (mm)	116.7	(2963)
C.	Height to drawbar, in. (mm)	42.1	(1071)
D.	Wheelbase, in. (mm)	131.5	(3340)
E.	Rear departure angle	33°	
	Turning radius-outside of tires, in. (mm)	237.5	(6032)
F.	Ground clearance, in. (mm)	16.4	(415.8)
G.	Tread width, in. (mm)	87.8	(2230)
H.	Width over tires, in. (mm)	113.6	(2885)

ENGINE

Make & model ..... FPT 667TA/EBD EPA Tier III Certified
Cylinders 6
Displacement, cu in (l) 411 (6.7)
Bore X stroke, in (mm) ..... 4.09 (104) x 5.20 (132)

Power

Standard
- Rated gross (per SAE J1995), hp (kW) .....209 (156) @ 2000 rpm
- Peak gross (per SAE J1995), hp (kW) .....210 (157) @ 1800 rpm
- Rated net (per SAEJ1349), hp (kW).....195 (145) @ 2000 rpm
- Peak net (per SAE J1349), hp (kW).....198 (148) @ 1800 rpm

Boosted power
- Rated/peak gross (per SAE J1995, hp (kW) .....227 (169) @ 2000 rpm
- Rated/peak net (per SAE J1349), hp (kW).....213 (159) @ 2000 rpm

Economy
- Rated gross (per SAE J1995), hp (kW) .....177 (132) @ 2000 rpm
- Peak gross (per SAE J1995), hp (kW) .....190 (142) @ 1500 rpm
- Rated net (per SAEJ1349), hp (kW).....163 (122) @ 2000 rpm
- Peak net (per SAE J1349), hp (kW).....181 (135) @ 1500 rpm

Torque, Max.

Standard
- Gross (per SAE J1995), lb-ft (N-m).....724 (982) @ 1400 RPM
- Net (per SAE J1349), lb-ft (N-m) .....701 (950) @ 1300 RPM

Boosted
- Gross (per SAE J1995), lb-ft (N-m).....739 (1002) @ 1400 RPM
- Net (per SAE J1349), lb-ft (N-m) .....712 (966) @ 1400 RPM

Economy
- Gross (per SAE J1995), lb-ft (N-m).....712 (966) @ 1200 RPM
- Net (per SAE J1349), lb-ft (N-m) .....693 (940) @ 1200 RPM

Governor..... Electronic control
Torque rise 33%
Fuel injection ..... Direct injection, diesel
Fuel filter ..... Full-flow spin-on cartridge
Lube system ..... Full-flow spin-on cartridge w/ integral cooler
Aspiration ..... Turbocharged, air to air cooled
Air cleaner ..... Dry type elements w/ warning restriction indicator
Advanced cooling system .....Independent mounted coolers, mid-mounted
Fan, in (mm) .....Hydraulically driven suction fan, 28 (711) diameter, purge feature optional
Radiator..... 5 rows, 9 fins/in.

TRANSMISSION

Type ..... Countershaft, power shift
Torque Converter..... Single-phase, single stage, 2.81:1 stall ratio
Shift Control System ..... Electronic control module, torque sensing, manual or automatic shifting
Control Location..... Steering column-mounted twist-grip shift lever, auxiliary controls on loader joystick

Travel speeds w/ 23.5 X 25 L3 tires

	Forward	Reverse
Gear 1, mph (km/h)	4.4 (7.1)	4.9 (7.9)
Gear 2, mph (km/h)	7.8 (12.6)	8.6 (13.8)
Gear 3, mph (km/h)	14.5 (23.3)	15.7 (25.3)
Gear 4, mph (km/h)	23.0 (37.0)	

AXLES/BRAKES

Differentials.....Limited slip, front and rear
Final Drives.....Heavy-duty outboard planetary reduction
Rear axle oscillation, in (mm)..... 24 degrees total, 15.2 (386) maximum vertical travel at wheel

Brakes
- Service Brakes..... Outboard, hydraulically actuated, maintenance-free, multiple wet disc with accumulator, acting on all four wheels. Complies with ISO 3450
- Parking Brake..... Spring applied, hydraulically released, acting on transmission output shaft

SERVICE CAPACITIES

Fuel tank, gal (l)..... 76 (288)
Engine oil, qt (l)..... 13 (12.3)
Engine oil / filter, qt (l)..... 14 (13.25)
Transmission w/ filter, gal (l)..... 36 (34.1)
Cooling system, qt (l) 10 (38)
Hydraulic reservoir, gal (l) 24 (90.8)
Hydraulic system, gal (l)..... 47 (178)
Axles (total), each, qt (l)
- Front..... 39.5 (37.4)
- Rear 25 (23.7)

ELECTRICAL

Electrical System .....24 volt, negative ground w/ 70 amp alternator
Batteries (two 12 volt).....700 CCA; 170 Ah

HYDRAULIC CYLINDERS

Lift cylinders, bore x stroke x rod, in (mm) ..... 5.25 (133.4) x 33.3 (845.7) x 3.00 (76.2)
Dump cylinder, bore x stroke x rod, in (mm)..... 6.50 (165.1) x 23.61 (599.6) x 3.50 (88.9)
Steering cylinders, bore x stroke x rod, in (mm) ..... 3.25 (82.6) x 18.97 (481.9) x 1.75 (44.5)

HYDRAULIC SYSTEMS/STEERING

Pump (steering/implement) ..... Variable Displacement, piston pump
Maximum flow, gpm (l/m) ..... 31.6 (120) @ 2000 RPM @ 3,600 psi (24,822 kPa)
Pressure, psi (kPa) ..... Loader relief: 3,625 (25,000); steering relief: 3,500 (24,132)
Valves ..... Closed-center, load sensing; positive low pressure regeneration for bucket dump
Loader Controls ..... Standard two-function valve; single-or dual lever controls, optional third-function valve; with anuxiliary lever, pilot operated controls with electromagnetic detents for float, raise, and bucket rollback; control lockout
Raise-loaded, sec 5.64
Dump-loaded 1.16
Lower-empty, power down 2.76
Lower-empty, float down 2.17
Steering
Type ..... Hydraulic orbital, load sensing, 40 degree center pivot articulation
Filtration ..... 10-micron, full flow cartridge filter on return line

PERFORMANCE DATA: PIN ON BUCKETS (see diagram previous page)

KEY	Bucket Type/Size									
	General Purpose w/ Bolt-on Edge		General Purpose w/ Teeth and Segments		Medium Density w/ Bolt-on Edge		Medium Density w/ Teeth and Segments		Light Material w/ Bolt-on Edge	
Capacity, heaped (SAE), cu yd (m^3)	3.44	(2.63)	3.44	(2.63)	4.15	(3.17)	4.15	(3.17)	4.43	(3.39)
Capacity, struck (SAE), cu yd (m^3)	2.90	(2.22)	2.90	(2.22)	3.54	(2.71)	3.54	(2.71)	3.78	(2.89)
Bucket width, in (mm)	115.3	(2929)	120.0	(3049)	115.3	(2929)	120.0	(3049)	115.3	(2929)
Bucket weight, lb (kg)	3,107	(1410)	3,225	(1463)	3,442	(1561)	3,560	(1615)	3,508	(1591)
Breakout force, lb (kg)	41,369	(18,765)	36,897	(16,736)	35,962	(16,312)	32,479	(14,732)	34,956	(15,856)
Tipping load, straight, lb (kg)	25,486	(11,560)	25,338	(11,493)	24,996	(11,338)	24,844	(11,269)	24,783	(11,241)
Tipping load @ 40 degree full turn, lb (kg)	21,868	(9919)	21,721	(9852)	21,396	(9705)	21,244	(9636)	21,203	(9617)
I. Dump clearance, 45° dump angle-full height, in (mm)	138.9	(3527)	135.5	(3441)	134.8	(3425)	131.4	(3338)	134.0	(3402)
J. Reach, 45° dump angle, full height, in (mm)	43.2	(1097)	47.3	(1200)	48.0	(1219)	52.1	(1323)	49.0	(1246)
Reach, 45° dump angle, 7-ft. (2.13 m) height, in (mm)	80.9	(2055)	83.7	(2126)	84.2	(2139)	86.9	(2206)	84.9	(2156)
K. Overall height, bucket @ full height, in (mm)	227.5	(5777)	227.5	(5777)	233.7	(5937)	233.7	(5937)	235.1	(5971)
L. Hinge pin height, fully raised, in (mm)	179.7	(4564)	179.7	(4564)	179.7	(4564)	179.7	(4564)	179.7	(4564)
M. Overall length, bucket on ground, in (mm)	322.3	(8186)	327.6	(8320)	328.6	(8345)	333.9	(8480)	329.9	(8380)
N. Clearance circle, bucket @ carry, in (mm)	534.6	(13,579)	542.3	(13,776)	538.8	(13,686)	546.7	(13,885)	539.8	(13,710)
Hydraulic lifting capacity @ full height, lb (kg)	18,964	(8602)	18,845	(8548)	18,627	(8449)	18,507	(8395)	18,558	(8418)
Hydraulic lifting capacity @ max. reach, lb (kg)	23,302	(10,570)	23,180	(10,514)	22,945	(10,408)	22,821	(10,352)	22,858	(10,368)
Hydraulic lifting capacity @ ground level, lb (kg)	27,081	(12,284)	26,947	(12,223)	26,570	(25,434)	26,434	(11,990)	25,334	(11,945)
Max. dump angle @ full height	49°		49°		49°		49°		49°	
Max.rollback @ full height	60°		60°		60°		60°		60°	
Max rollback @ max reach	53°		53°		53°		53°		53°	
O. Max. rollback @ carry	43°		43°		43°		43°		43°	
Max.rollback @ ground	37°		37°		37°		37°		37°	
P. Digging depth, in (mm)	5.6	(142)	5.6	(142)	5.6	(142)	5.6	(142)	5.6	(142)
Operating weight, lb (kg)	39,045	(17,710)	39,162	(17,764)	39,379	(17,862)	39,497	(17,916)	39,445	(17,892)

PERFORMANCE DATA: COUPLER BUCKETS (see diagram previous page)

KEY	Bucket Type/Size							
	NH Coupler & General Purpose w/ Bolt-on Edge		General Purpose w/ Teeth & Segments		ACS Coupler & General Purpose w/ Bolt-on Edge		ACS Coupler & General Purpose w/ Teeth & Segments	
Capacity, heaped (SAE), cu yd (m^3)	3.44	(2.63)	3.44	(2.63)	3.77	(2.88)	3.77	(2.88)
Capacity, struck (SAE), cu yd (m^3)	2.88	(2.20)	2.88	(2.20)	3.17	(2.42)	3.17	(2.42)
Bucket width, in (mm)	119.3	(3030)	120.6	(3063)	119.3	(3030)	120.0	(3048)
Bucket weight w/coupler, lb (kg)	4,221	(1915)	4,425	(2007)	4,338	(1968)	4,514	(2047)
Breakout force, lb (kg)	33,440	(15,168)	35,131	(15,935)	35,332	(16,026)	31,676	(14,368)
Tipping load, straight, lb (kg)	23,120	(10,487)	22,881	(10,378)	23,651	(10,728)	23,429	(10,627)
Tipping load @ 40 degree full turn, lb (kg)	19,686	(8929)	19,447	(8821)	20,131	(9131)	19,908	(9030)
I. Dump clearance, 45° dump angle-full height, in (mm)	132.7	(3370)	128.7	(3268)	134.6	(3418)	130.7	(3319)
J. Reach, 45° dump angle, full height, in (mm)	50.6	(1284)	55.3	(1403)	48.4	(1230)	52.5	(1334)
Reach, 45° dump angle, 7-ft. (2.13 m) height, in (mm)	85.9	(2181)	88.8	(2256)	84.5	(2147)	87.0	(2210)
K. Overall height, bucket @ full height, in (mm)	233.2	(5923)	233.2	(5923)	232.1	(5895)	232.1	(5895)
L. Hinge pin height, fully raised, in (mm)	179.6	(4563)	179.6	(4563)	179.7	(4563)	179.7	(4563)
M. Overall length, bucket on ground, in (mm)	331.9	(8430)	338.1	(8587)	329.0	(8356)	334.8	(8505)
N. Clearance circle, bucket @ carry, in (mm)	544.6	(13,834)	550.1	(13,973)	542.6	(13,782)	547.3	(13,902)
Hydraulic lifting capacity @ full height, lb (kg)	17,816	(8081)	17,610	(7988)	17,720	(8838)	17,543	(7957)
Hydraulic lifting capacity @ max. reach, lb (kg)	21,995	(9977)	21,785	(9882)	21,985	(9972)	21,801	(9889)
Hydraulic lifting capacity @ ground level, lb (kg)	24,987	(11,334)	24,767	(11,234)	25,340	(11,494)	25,148	(11,407)
Max. dump angle @ full height	49°		49°		49°		49°	
Max.rollback @ full height	60°		60°		60°		60°	
Max rollback @ max reach	53°		53°		53°		53°	
O. Max. rollback @ carry	43°		43°		43°		43°	
Max.rollback @ ground	37°		37°		37°		38°	
P. Digging depth, in (mm)	5.6	(142)	5.7	(144)	5.5"	(140)	5.9	(149)
Operating weight, lb (kg)	40,158	(18,215)	40,362	(18,308)	40,275	(18,269)	40,451	(18,348)

W170B W170B TC W170B LR

Base & Optional Equipment

BASE EQUIPMENT

ENGINE
FPT 667TA/EB3 6-cylinder turbo diesel
EPA off-road certified, Tier III
Displacement: 411 cu in (6.7 l)
Horsepower (kilowatts):
Gross 181 hp (135 kW) @ 2000 rpm rated
Boost - 195 hp (145 kW) peak
Net 169 hp (127 kW) @ 2000 rpm rated
Boost - 183 hp (137 kW) peak
Air-to-air after cooler
Anti-freeze solution -34º F (-37º C)
Fuel Tank: 65 gal U.S. (246 l)
Fuel Tank: 65 gal U.S. (246 l)
Hydraulically driven suction fan with guard
Electronic fuel injector
Advanced cooling system
Selectable power mode

DRIVE TRAIN
AXLES & TIRES:
Limited slip differentials - front and rear
Maintenance free driveshafts and axle dipsticks
20.5 x 25 12 PR L2 bias ply tires, 3 piece rims

TRANSMISSION
Speeds: 4F - 3R
Computer controlled, full-power, proportional shifting
Single lever electronic shift control
FNR shuttle shift
Programmable gear selection
Selectable fully-automatic and manual modes
Electronic transmission disconnect
On-board diagnostics with fault code storage and retrieval
Single, vertically mounted, spin-on oil filter
Oil cooler

HYDRAULICS
Pilot-operated joystick control
2-spool valve
Pressure compensated, load sensing hydraulics
Two vertically mounted, spin-on oil filters
Hydraulic diagnostic quick couplers
O-ring face seal hydraulic fittings
Full-flow oil cooler
Cushioned steering cylinders
Standard hydraulic steering system

LOADER SYSTEM
Automatic return-to-dig, automatic height control, and automatic return-to-travel
Position indicator on bucket
Single lever / two spool loader control
Z-bar loader linkage (W170B)
Parallel loader linkage (W170B TC)
Long reach loader arms (W170B LR)
Single piece, flame cut, loader arms (W170B, W170B LR)
Ground level lubrication points

BRAKES
4-wheel, outboard mounted, wet disc hydraulic brakes
Parking brake; spring applied hydraulic release
Separate front and rear brake systems

ELECTRICAL SYSTEM
24-volt system
Two heavy duty 12V 700 cold cranking amp (CCA) batteries
Halogen lights:
2 front and 2 rear worklights
2 front driving (hi/lo beam)
Stop/tail lights and backup lights
Front and rear turn signals and flashers
Alternator: 70 amp
Electrical disconnect switch
Horn
Backup alarm

OPERATOR STATION
ROPS cab with heater and air conditioning
Inside rearview mirror
Cloth mechanical suspension seat, with 2 in. (51 mm) seatbelt
Storage tray, cup holder
Tilt steering wheel with integral steering knob
Fully adjustable wrist rest
Cigar/cigarette lighter-24 volt
Wiring & speaker covers, for radio installation
Multi-function display panel

INSTRUMENTS
Individual gauges for:
1. Engine coolant temp.
2. Fuel level
3. Hour meter
4. Speedometer
5. Trans. oil temp.

Indicator Lights for:
1. Air filter restriction
2. Battery charge
3. Brake oil pressure
4. Emergency steering (if equipped)
5. Engine coolant temp.
6. Engine oil pressure
7. Fuel level
8. General alarm
9. High beam
10. Parking break
11. Trans. oil temp.
12. Trans. speed
13. Turn signals

OTHER EQUIPMENT
Articulation and loader lift arm locking bars
Drawbar hitch
Front and rear fenders, left side steps
Remote drain points
Front and rear lift and tie down points

OPTIONAL EQUIPMENT

OPERATOR STATION
ROPS canopy with vinyl suspension seat with 2 in. seat belt
ROPS canopy with vinyl suspension seat with 3 in. seat belt
Mechanical suspension seat, cloth covered with 3 in. seat belt
Air suspension seat, cloth covered with 2 in. seat belt
Air suspension seat, cloth covered with 3 in. seat belt
Fire extinguisher
Amber rotating beacon
AM/FM stereo radio 12V (includes radio ready accessories)
Radio ready 12V

ENGINE
Cold weather package
Cooling system with hydraulic cooler & reversing fan

HYDRAULICS
Valve, 2 spool, 2 lever
Valve, 3 spool, 3 lever
Valve, 3 spool, joystick, 1 lever
Load Travel Stabilizer System (LTS)
Standard steering with secondary electric steering

AXLES & TIRES
20.5 R25 L2 traction tread, radial, 3 piece rim
20.5 x 25 L3 rock tread, bias ply, 3 piece rim
20.5 R25 L3 rock tread, radial, 3 piece rim

BUCKET & ATTACHMENTS (W170B & W170B LR)
Pin-on buckets
(see charts on page 11 & 15)
Quick coupler
(see charts on page 11 & 15)
Quick coupler buckets
(see charts on page 11 & 15)

BUCKET & ATTACHMENTS (W170B TC)
Quick coupler
(see chart on page 13)
Quick coupler buckets
(see chart on page 13)

OTHER EQUIPMENT
Standard fenders with LH and RH steps
Wide full coverage fenders with LH & RH steps
Heavy counterweight (1,119 lbs.)
Brake, right hand
Rear frame articulation joint side covers (transmission guards)
Tool box
Transmission bottom guard (belly pan)
Axle stops for 20.5 Tires with chains
Pre-cleaner, full-view

W190B W190B LR
Base & Optional Equipment

BASE EQUIPMENT

ENGINE
FPT 667TA/EBD 6-cylinder turbo diesel
EPA off-road certified, Tier III
Displacement: 411 cu in (6.8 l)
Horsepower (kilowatts):
Gross 210 hp (157 kW) @ 2000 rpm rated
Boost - 227 hp (169 kW) peak
Net 198 hp (148 kW) @ 2000 rpm rated
Boost - 213 hp (159 kW) peak
Air-to-Air after cooler
Anti-freeze solution -34°F (-37°C)
Fuel tank: 76 gal U.S. (288 l)
Air cleaner - 2 stage with radial seal elements
Hydraulically driven suction fan with guard
Electronic fuel injector
Advanced Cooling System (ACS)
Selectable power mode

DRIVE TRAIN
AXLES & TIRES
Limited slip differentials - front and rear
Maintenance free driveshafts and axle dipsticks
23.5 x 25 L2 bias ply tires, 3-piece rims

TRANSMISSION
Speeds: 4F-3R
Computer controlled, full-power, proportional shifting
Single lever electronic shift control
FNR shuttle shift
Programmable gear selection
Selectable fully-automatic and manual modes
Electronic transmission disconnect
On-board diagnostics with fault code storage and retrieval
Single, vertically mounted, spin-on oil filter
Oil cooler

HYDRAULICS
Pilot-operated joystick control
2-spool valve
Pressure compensated, load sensing hydraulics
Two vertically mounted, spin-on oil filters
Hydraulic diagnostic quick couplers
O-ring face seal hydraulic fittings
Full-flow oil cooler
Cushioned steering cylinders
Standard hydraulic steering system

LOADER SYSTEM
Automatic return-to-dig, automatic height control, and automatic return-to-travel
Position indicator on bucket
Single lever / two spool loader control
Z-bar loader linkage (W190B)
Long reach loader arms (W190B LR)
Single piece, flame cut, loader arms
Ground level lubrication points

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4-Wheel, outboard mounted, wet disc hydraulic brakes
Parking brake, spring applied hydraulic release
Separate front and rear brake systems

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24-volt system
Two Heavy Duty 12V 700 cold cranking amp (CCA) batteries
Halogen lights:
2 front and 2 rear worklights
2 front driving (hi/lo beam)
Stop/tail lights and backup lights
Front and rear turn signals and flashers
Alternator: 65 amp
Electrical disconnect switch
Horn
Backup alarm

OPERATOR STATION
ROPS cab with heater and air conditioning
Inside rearview mirror
Cloth mechanical suspension seat, with 2 in. (51 mm) seatbelt
Storage tray, cup holder
Tilt steering wheel with integral steering knob
Fully adjustable wrist rest
Cigar/cigarette lighter-24 volt
Wiring & speaker covers for radio installation
Multi-function display panel

INSTRUMENTS
Individual gauges for:
1. Engine coolant temp.
2. Fuel level
3. Hour meter
4. Speedometer
5. Trans. oil temp.

Indicator Lights for:
1. Air filter restriction
2. Battery charge
3. Brake oil pressure
4. Emergency steering (if equipped)
5. Engine coolant temp.
6. Engine oil pressure
7. Fuel level
8. General alarm
9. High beam
10. Parking break
11. Trans. oil temp.
12. Trans. speed
13. Turn signals

OTHER EQUIPMENT
Articulation and loader lift arm locking bars
Drawbar hitch
Front and rear fenders, left side steps
Remote drain points
Front and rear lift and tie down points

OPTIONAL EQUIPMENT

OPERATOR STATION
ROPS canopy with vinyl suspension seat with 2 in. seat belt
ROPS canopy with vinyl suspension seat with 3 in. seat belt
Mechanical suspension seat, cloth covered with 2 in. seat belt
Air suspension seat, cloth covered with 2 in. seat belt
Air suspension seat, cloth covered with 3 in. seat belt
Fire extinguisher
Amber rotating beacon
AM/FM stereo radio 12V includes radio ready accessories)
Radio ready 12V

ENGINE
Cold weather package
Cooling system with hydraulic cooler & reversing fan

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Valve, 2 spool, 2 lever
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Valve, 3 spool, joystick, 1 lever
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Standard steering with secondary electric steering

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23.5 R25 L2 traction tread, radial, 3 piece rim
23.5 x 25 L3 rock tread, bias ply, 3 piece rim
23.5 R25 L3 rock tread, radial, 3 piece rim

BUCKET & ATTACHMENTS
Pin-on buckets
(see charts on page 17 & 19)
Quick coupler
(see charts on page 17 & 19)
Quick coupler buckets
(see charts on page 17 & 19)

OTHER EQUIPMENT
Standard fenders with LH and RH steps
Wide full coverage fenders with LH & RH steps
Heavy counterweight (adds 1,225 lbs.)
Break, right hand
Rear frame articulation joint side covers (transmission guards)
Tool box
Transmission bottom guard (belly pan)
Full-view air pre-cleaner
Axle stops for 23.5 Tires with chains

WHEEL LOADERS

W170B

Horsepower: Net 183 hp (137 kW)

Operating weight: 31,000 lbs (14,107 kg) with 3.0 yd^3 pin-on excavating bucket with bolt-on edge

Bucket capacity: 3.0 cu ft (2.3 m^3)

W170B TC

Horsepower: Net 183 hp (137 kW)

Operating weight: 31,100 lbs (14,107 kg) with 3.02 yd^3 pin-on excavating bucket with bolt-on edge

Bucket capacity: 3.0 cu ft (2.3 m^3)

W170B LR

Horsepower: Net 183 hp (137 kW)

Operating weight: 31,100 lbs (14,107 kg) with 3.0 yd^3 pin-on excavating bucket with bolt-on edge

Bucket capacity: 3.0 cu ft (2.3 m^3)

W190B

Horsepower: Net 213 hp (159 kW)

Operating weight: 37,844 lbs (17,166 kg) with 3.44 yd^3 pin-on excavating bucket with bolt-on edge

Bucket capacity: 3.44 cu ft (2.63 m^3)

W190B LR

Horsepower: Net 213 hp (159 kW)

Operating weight: 39,045 lbs (17,710 kg) with 3.44 yd^3 pin-on excavating bucket with bolt-on edge

Bucket capacity: 3.44 cu ft (2.63 m^3)

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