190G W/230G W

19 960–24 140-kg (44,000–53,220 lb.) Operating Weight





The wheel deal.

Looking to get on a roll? 190G W and 230G W Wheeled Excavators travel on tires, so they're more mobile and maneuverable than tracked excavators. Their more spacious and comfortable cabs come equipped with easy-to-navigate enhanced LCD monitors that let operators easily dial-in a wealth of machine info and functionality. Rugged EPA Interim Tier 4 (IT4)/EU Stage IIIB diesels meet rigid emission regulations, enabling you to work, wherever there's work. Delivering the smoothness, control, and operating ease you've come to expect from John Deere, these wheeled excavators are the real deal.





John Deere WorkSight™ is a powerful suite of telematics solutions that optimizes machines, uptime, and jobsites. At its heart, JDLink™ monitoring provides real-time machine-location and -utilization data, and enables machine-health prognostics that suggest maintenance solutions to prevent costly downtime.

Choose from a variety of boom, blade, outrigger, and bucket options to equip your machine exactly as needed to optimize your setup.

Spacious cab delivers excellent visibility and less noise, along with a bevy of creature comforts.

The IT4/Stage IIIB technology utilized in our diesel engine is simple, fuel efficient, fully integrated, and fully supported. Seamless solutions that require no operator input or loss of productivity include field-proven cooled exhaust gas recirculation (EGR) for reducing NO_x , and a diesel particulate filter (DPF) and diesel oxidation catalyst (DOC) to reduce particulate matter.

Rubber tires allow you to drive quickly from job to job instead of loading up a trailer — plus they're much friendlier to paved surfaces.

The G-Series' short wheelbase makes them very adept in close quarters — unlike unwieldy truck-mounted excavators. For work close-up, opt for the two-piece boom.

Multi-language LCD monitor and rotary dial provide intuitive access to a wealth of information and functions.

Streetwise.

Work has never been easier than with John Deere wheeled excavators. They're the perfect "Swiss Army knife" for a variety of work, whether it's clearing ditches, repairing sewers or potholes, loading trucks, or moving Jersey barriers. Rubber tires and transport speeds as fast as 35 km/h (21.7 mph) mean you don't need to load them on a trailer to travel to a nearby job or across pavement. Plenty of street smarts, too, with the Powerwise III™ engine/hydraulic-management system, three productivity modes, and Power Dig and Auto Power Lift functions. Add any of the many available options to tackle a wide variety of on- and off-road work.

DEERE

Coverflow assist hydraulics come

When the digging gets tough, press the Power Dig button for the extra hydraulic power you need to muscle through. Need a little extra lift when craning? Auto Power Lift automatically engages when the boom is raised.

Powerwise III perfectly balances engine performance and hydraulic flow for predictable operation. Three productivity modes allow you to choose the digging style that fits the job. *High productivity* delivers more power and faster hydraulic response to move more material. *Power* delivers smooth and balanced metering for normal operation. *Economy* reduces top speed and helps save fuel.

Impressive horsepower, weight, and dig forces make these machines highly productive for a wide variety of work.

Activate the axle-lock switch on the steering column to hold the machine more steady while digging or handling material when the stabilizers are not in use. Engage the brake at the same time to add even more stability.

Fast travel speed and boom and arm movement combined with superior arm force help speed cycle times. Wide axles, rock-solid stability, and substantial lift capabilities allow these machines to quickly move Jersey barriers.

Low-flow assist hydraulics come standard, perfect for lower-pressure, lower-flow applications like bucket-tilt or -swinger attachments. Need additional hydraulic capability? Dealer-installed high-pressure, high-flow auxiliary hydraulic packages are available.

Standard deluxe lighting package provides 360-deg. illumination of the work area so you can extend the workday beyond daylight hours.

If you don't need a blade, choose the four-outrigger option for maximum stability. You can activate the outriggers together or independently to quickly and easily level the machine.



Tap into your full potential.

Operators will have no trouble "dialing it up a notch" in this spacious, well-appointed cab. The refined monitor employs a rotary control that operators can simply turn and tap to access an abundance of performance and convenience functions and features. Operators will also appreciate the comfortable fabric-covered high-back seat, unsurpassed all-round visibility, low-effort joysticks, a highly efficient HVAC system, and numerous other amenities. The 190G W and 230G W provide everything your operators need to do their best work.

Generous hydraulic flow and smooth, predictable metering ensure powerful digging force, precise low-effort control, and superb multifunction operation. Quick, responsive pump activation eliminates any delay in functions.

Wide expanse of front and side glass, narrow front cab posts, large overhead glass, and numerous mirrors provide virtually unobstructed all-around visibility. If you need to see more, the standard rearview camera displays the action behind on the monitor.

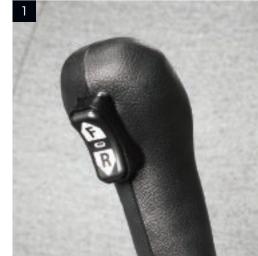
We've got your back with a sculpted mechanical-suspension high-back seat. Seat has 318 mm (12.5 in.) of travel, sliding together or independent of the joystick console. So it won't cramp an operator's style.

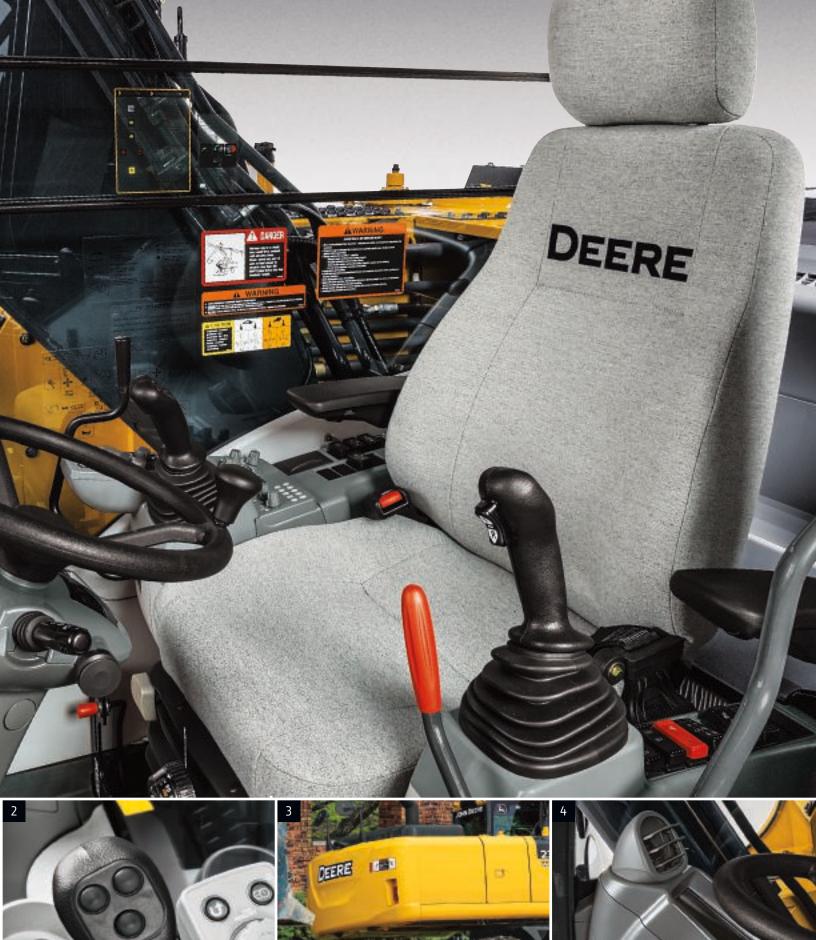
Two-speed PowerShift™ transmission shifts smoothly on-the-go from low to high in each speed, enabling multiple operating speeds for better responsiveness. Downshifting isn't a problem either, since the transmission will only shift within certain travel-speed parameters — protecting both operator and drivetrain.

Multi-language LCD monitor provides intuitive access to a wealth of information and functions. Simply turn and tap the rotary dial to select work mode, access operating info, check maintenance intervals, source diagnostic codes, adjust cab temperature, and tune the radio. Plus much more.



- The F-N-R directional switch is now conveniently located on the left-hand pilot lever, making it is easier to control the blade and stabilizer functions.
- Ergonomically correct short-throw pilot levers provide smooth, predictable fingertip control with less movement or effort. Pushbuttons in the right lever allow fingertip control of auxiliary hydraulic flow for operating attachments.
- **3.** Each outrigger is independently controlled, enabling optimum placement to help complete the job safely and surely.
- 4. Automatic, high-velocity bi-level climate-control system with automotive-style adjustable louvers helps keep the glass clear and the cab comfortable.



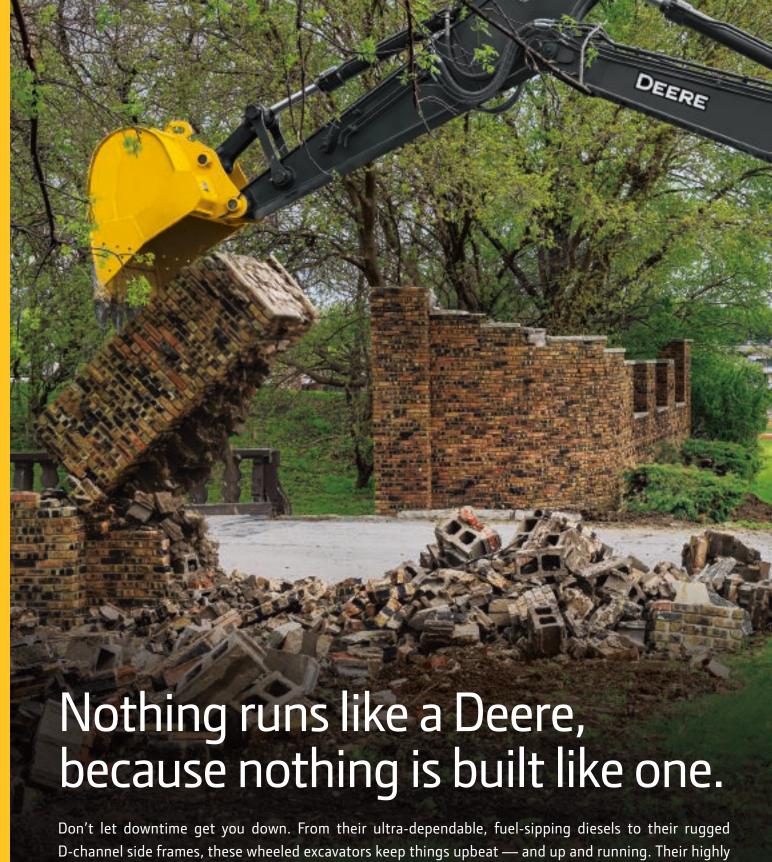












Don't let downtime get you down. From their ultra-dependable, fuel-sipping diesels to their rugged D-channel side frames, these wheeled excavators keep things upbeat — and up and running. Their highly efficient cooling system ensures things are running cool in any environment. You'll also continue to profit from traditional durability-enhancing features, including tungsten-carbide thermal-coated arm surfaces, oil-impregnated bushings, and welded boom bulkheads. For maximum uptime and long-term durability. When you know how they're built, you'll run a Deere.



Let's roll.

G-Series Wheeled Excavators are loaded with features that make them hassle-free to service and maintain, so you can keep things rolling. Large, easy-to-open doors and easy-access service points make quick work of the daily routine. Remote-mounted vertical oil and fuel filters minimize maintenance. And extended engine and hydraulic fluidservice intervals increase uptime and reduce daily operating costs. Plus the Machine Information Center (MIC), state-of-the-art LCD color monitor, and fluid-sample ports help you make timely decisions about machine upkeep — and manage uptime and costs.

Auto-idle automatically reduces engine speed when hydraulics aren't in use. Auto-shutdown further preserves precious fuel.

MIC captures and stores vital machine performance and utilization data to help improve uptime.

Large fuel tanks and 500- and 5,000hour engine and hydraulic oil-service intervals decrease downtime for routine maintenance.

Ground-level fresh-air cab filter is quickly serviced from outside the cab where it's more likely to get done.

Reinforced resin thrust plates, grooved bushings, and thermal-coated bucket joints increase arm, boom, and bucket lube intervals to 500 hours.

WorkSight[™], is a customizable support solution available exclusively from your Deere dealer. This flexible offering maximizes equipment availability with standard John Deere WorkSight capabilities that can help prevent future downtime and speed repairs when they do occur. In addition to the base John Deere WorkSight features, our dealers work with you to build an needs of your machine, fleet, project, and business, including customized maintenance and repair agreements, onsite parts availability, extended warranties, fluid sampling, responsetime guarantees, and more.



- 1. Easy-to-read LCD monitor tracks scheduled maintenance intervals and issues reminders. Should a problem arise, it provides diagnostic information to help decrease downtime.
- 2. Swing open the side panels on either side of the machine to provide even more wide-open access to components.
- 3. Fuel coolers and A/C condensers swing out, simplifying clean-out. Side-by-side coolers provide easy access.
- 4. Vertical spin-on engine oil filters and fuel/water separators are conveniently grouped in the right rear compartment, for easy ground-level servicing.











190G W

Engine 190G W
Manufacturer and Model Isuzu 4HK1

Non-Road Emission Standard EPA Interim Tier 4/EU Stage IIIB

Cylinders 4

Displacement 5.2 L (317 cu. in.)

Net Peak Power (ISO 9249) 119 kW (159 hp) at 2,000 rpm

Off-Level Capacity 67% (34 deg.)

Aspiration Turbocharged, air-to-air charge-air cooler

Cooling

High-efficiency, direct-drive suction-type fan

Powertrain

2-speed propel with creeper mode and automatic shift

Maximum Travel Speed

 Creeper
 2.6 km/h (1.6 mph)

 Low
 8.6 km/h (5.3 mph)

 High
 35.0 km/h (21.8 mph)

Front Axle All-wheel drive; can be locked hydraulically in any position

Oscillation $\pm 7 \deg$.

Brakes Maintenance-free wet-disc brakes on front and rear axles; fully hydraulic service brakes

Tires Standard size, dual-traction-type 10.00-20 14PR tires

Drawbar Pull 9534 kgf (20,570 lbf)

Hydraulics

Main Pumps 2 variable-displacement axial-piston pumps

Pump Flow, Maximum x 2 165 L/min. (43.6 gpm)

System Operating Pressure

 Implement Circuits
 34 300 kPa (4,975 psi)

 Travel Circuits
 34 800 kPa (5,047 psi)

 Swing Circuits
 33 400 kPa (4,844 psi)

 Power Boost
 36 300 kPa (5,265 psi)

Controls Pilot levers, short stroke, low-effort hydraulic pilot controls with shutoff lever

Cylinders

	Bore	Rod Diameter	Stroke
Monoblock Boom (2)	120 mm (4.7 in.)	85 mm (3.4 in.)	1050 mm (41.3 in.)
2-Piece Boom (2)	120 mm (4.7 in.)	85 mm (3.4 in.)	980 mm (38.6 in.)
Positioning, 2-Piece Boom (1)	170 mm (6.7 in.)	105 mm (4.1 in.)	670 mm (26.4 in.)
Arm (1)	125 mm (4.9 in.)	90 mm (3.5 in.)	1371 mm (54.0 in.)
Bucket (1)	105 mm (4.1 in.)	75 mm (3.0 in.)	1060 mm (41.7 in.)

Electrical

Voltage 24 volt
Number of Batteries (12 volt) 2
Alternator Rating 50 amp

Lights (6) Headlights (2), top of cab (2), rear of cab (1), and boom (1)

Driving Lights Headlights (2), turn signals and hazard lights, brake lights, and side marker lights

Swing Mechanism

Speed 12.2 rpm

Torque 53 000 Nm (39,091 lb.-ft.)

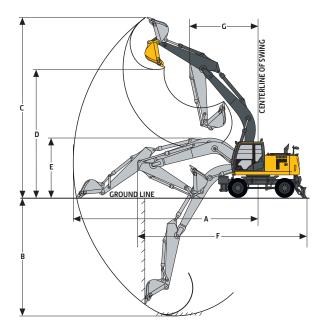
Serviceability

Refill Capacities

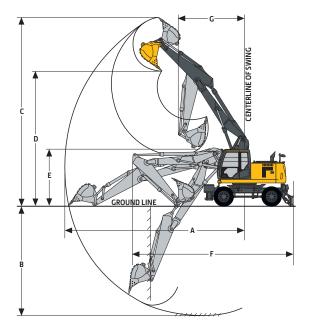
Fuel Tank	290 L (76.6 gal.)
Engine Coolant	25 L (6.6 gal.)
Engine Oil with Filter	23 L (6.1 gal.)
Hydraulic Tank	100 L (26.4 gal.)
Hydraulic System	180 L (47.6 gal.)
Swing Drive	6.2 L (6.6 qt.)
Transmission	2.5 L (2.6 qt.)



Differential Gear Front 9.5 L (2.5 gal.) Rear 14 L (3.7 gal.)	Serviceability (continued)	190G W	
Front net and Rear 14 L (3.7 gal.) Rear 14 L (3.7 gal.) Front and Rear Hubs 2.5 L x 2 (2.6 qt. x 2) Poperating Weights Vith full fuel tank; 79-kg (175 lb.) operator; 0.7-m³ (0.92 cu. yd.), 900-mm (35 in.), 610-kg (1,345 lb.) bucket; 2.71-m (8 ft. 11 in.) arm; standard gauge; and 4000-kg (8,819 lb.) counterweight	Refill Capacities (continued)		
Rear 14 L (3.7 gal.) Front and Rear Hubs 2.5 L x 2 (2.6 qt. x 2) Perating Weights	Differential Gear		
Front and Rear Hubs Decrating Weights With full fuel tank; 79-kg (175 lb.) operator; 0.7-m³ (0.92 cu. yd.), 900-mm (35 in.), 610-kg (1,345 lb.) bucket; 2.71-m (8 ft. 11 in.) arm; standard gauge; and 4000-kg 8,819 lb.) counterweight Monoblock Boom 2-Piece Boom	Front	9.5 L (2.5 gal.)	
Parting Weights Parting Weights Parting Weights Parting Weights Parting Weights Parting Weight	Rear	14 L (3.7 gal.)	
With full fuel tank; 79-kg (175 lb.) operator; 0.7-m³ (0.92 cu. yd.), 900-mm (35 in.), 610-kg (1,345 lb.) bucket; 2.71-m (8 ft. 11 in.) arm; standard gauge; and 4000-kg 8,819 lb.) counterweight Monoblock Boom 2-Piece Boom Front Outrigger and Rear Outrigger 20 200 kg (44,530 lb.) 20 550 kg (45,300 lb.) Operating Dimensions Monoblock Boom 2-Piece Boom Vam Digging Force SAE 87 kN (19,558 lb.) 87 kN (19,558 lb.) SAE 87 kN (24,055 lb.) 91 kN (20,458 lb.) Bucket Digging Force SAE 107 kN (24,055 lb.) 107 kN (24,055 lb.) SAE 107 kN (24,055 lb.) 123 kN (27,651 lb.) 123 kN (27,651 lb.) Maximum Reach 9.58 m (31 ft. 5 in.) 9.48 m (31 ft. 1 in.) Maximum Digging Depth 5.83 m (19 ft. 2 in.) 5.93 m (19 ft. 5 in.) Maximum Dumping Height 6.45 m (21 ft. 2 in.) 6.95 m (32 ft. 4 in.) Overall Length 70 overall Length 9.54 m (31 ft. 4 in.) 9.36 m (30 ft. 9 in.) Front Outrigger and Rear Outrigger 9.54 m (31 ft. 4 in.) 9.36 m (30 ft. 9 in.)		2.5 L x 2 (2.6 qt. x 2)	
Monoblock Boom 2-Piece Boom 2-	Operating Weights		
Front Outrigger and Rear Outrigger 20 200 kg (44,530 lb.) 20 550 kg (45,300 lb.) 20 310 kg (44,780 lb.) 20 310 kg	With full fuel tank; 79-kg (175 lb.) operation (8,819 lb.) counterweight	tor; 0.7-m³ (0.92 cu. yd.), 900-mı	m (35 in.), 610-kg (1,345 lb.) bucket; 2.71-m (8 ft. 11 in.) arm; standard gauge; and 4000-kg
Page 2		Monoblock Boom	2-Piece Boom
Monoblock Boom 2-Piece Boom SAE 87 kN (19,558 lb.) 87 kN (19,558 lb.) 87 kN (19,558 lb.) 87 kN (20,458 lb.) 88 kN (20,455 lb.) 88 kN (20,455 lb.) 88 kN (20,455 lb.) 88 kN (20,455 lb.) 89 kN (20,455 lb.) 80 kN (20,4	Front Outrigger and Rear Outrigger	20 200 kg (44,530 lb.)	20 550 kg (45,300 lb.)
Monoblock Boom 2-Piece Boom Arm Digging Force SAE 87 kN (19,558 lb.) 87 kN (19,558 lb.) ISO 91 kN (20,458 lb.) 91 kN (20,458 lb.) Bucket Digging Force SAE 107 kN (24,055 lb.) 107 kN (24,055 lb.) ISO 123 kN (27,651 lb.) 123 kN (27,651 lb.) Maximum Reach 9.58 m (31 ft. 5 in.) 9.48 m (31 ft. 1 in.) Maximum Digging Depth 5.83 m (19 ft. 2 in.) 5.93 m (19 ft. 5 in.) Maximum Cutting Height 9.25 m (30 ft. 4 in.) 9.85 m (32 ft. 4 in.) Maximum Dumping Height 6.45 m (21 ft. 2 in.) 6.95 m (22 ft. 10 in.) Overall Height 3.13 m (10 ft. 3 in.) 3.21 m (10 ft. 6 in.) Overall Length Front Outrigger and Rear Outrigger 9.54 m (31 ft. 4 in.) 9.36 m (30 ft. 9 in.)	Front Blade and Rear Outrigger	19 960 kg (44,000 lb.)	20 310 kg (44,780 lb.)
SAE 87 kN (19,558 lb.) 87 kN (19,558 lb.) 91 kN (20,458 lb.) 91 kN (20,458 lb.) 91 kN (20,458 lb.) 80 kUcket Digging Force SAE 107 kN (24,055 lb.) 107 kN (24,055 lb.) 107 kN (24,055 lb.) 123 kN (27,651 lb.	Operating Dimensions		
SAE 87 kN (19,558 lb.) 87 kN (20,458 lb.) 91 kN (24,055 lb.) 91 kN (24		Monoblock Boom	2-Piece Boom
SO 91 kN (20,458 lb.) 91 kN (20,458 lb.) 80 kN (20,458 lb.) 107 kN (24,055 lb.) 107 kN (24,055 lb.) 123 kN (27,651 lb.	Arm Digging Force		
Sucket Digging Force SAE 107 kN (24,055 lb.) 107 kN (24,055 lb.) ISO 123 kN (27,651 lb.) 123 kN (27,651 lb.) Maximum Reach 9.58 m (31 ft. 5 in.) 9.48 m (31 ft. 1 in.) Maximum Digging Depth 5.83 m (19 ft. 2 in.) 5.93 m (19 ft. 5 in.) Maximum Cutting Height 9.25 m (30 ft. 4 in.) 9.85 m (32 ft. 4 in.) Maximum Dumping Height 6.45 m (21 ft. 2 in.) 6.95 m (22 ft. 10 in.) Overall Height 3.13 m (10 ft. 3 in.) 3.21 m (10 ft. 6 in.) Overall Length Front Outrigger and Rear Outrigger 9.54 m (31 ft. 4 in.) 9.36 m (30 ft. 9 in.)		87 kN (19,558 lb.)	87 kN (19,558 lb.)
SAE 107 kN (24,055 lb.) 107 kN (24,055 lb.) 123 kN (27,651 lb.) 124 kN (27,651 lb.) 125 kN (27,651 lb.) 12		91 kN (20,458 lb.)	91 kN (20,458 lb.)
SO	Bucket Digging Force		
Maximum Reach 9.58 m (31 ft. 5 in.) 9.48 m (31 ft. 1 in.) Maximum Digging Depth 5.83 m (19 ft. 2 in.) 5.93 m (19 ft. 5 in.) Maximum Cutting Height 9.25 m (30 ft. 4 in.) 9.85 m (32 ft. 4 in.) Maximum Dumping Height 6.45 m (21 ft. 2 in.) 6.95 m (22 ft. 10 in.) Overall Height 3.13 m (10 ft. 3 in.) 3.21 m (10 ft. 6 in.) Overall Length Front Outrigger and Rear Outrigger 9.54 m (31 ft. 4 in.) 9.36 m (30 ft. 9 in.)		, , ,	,
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Overall Height 3.13 m (10 ft. 3 in.) 3.21 m (10 ft. 6 in.) Overall Length Front Outrigger and Rear Outrigger 9.54 m (31 ft. 4 in.) 9.36 m (30 ft. 9 in.)	3 3		, ,
Overall Length Front Outrigger and Rear Outrigger 9.54 m (31 ft. 4 in.) 9.36 m (30 ft. 9 in.)	, , ,	, ,	· · · ·
Front Outrigger and Rear Outrigger 9.54 m (31 ft. 4 in.) 9.36 m (30 ft. 9 in.)	3	3.13 m (10 ft. 3 in.)	3.21 m (10 ft. 6 in.)
	3		
Front Blade and Pear Outrigger 9 //8 m /31 ft 1 in) 9 30 m /30 ft 6 in)		• • • • • • • • • • • • • • • • • • • •	. ,
	Front Blade and Rear Outrigger	9.48 m (31 ft. 1 in.)	9.30 m (30 ft. 6 in.)
3.48 m (11 ft. 5 in.) 3.00 m (9 ft. 10 in.)	G Minimum Swing Radius	3.48 m (11 ft. 5 in.)	3.00 m (9 ft. 10 in.)







190G W EXCAVATOR WITH 2-PIECE BOOM

Machine Dimensions

R

Overall Width of Blade

Retracted

Extended

Overall Width with Outrigger

Overall Width with Outrigger

V Overall Height of Boom (traveling)

190G W

With standard gauge and 2.71-m (8 ft. 11 in.) arm; dimensions are provided for both the front and rear outrigger configuration, and for the front blade and rear outrigger configuration

tig	uration, and for the front blade and		
rea	ar outrigger configuration	Monoblock Boom	2-Piece Boom
Α	Overall Length	8.98 m (29 ft. 6 in.)	_
ΑI	Overall Length	_	8.80 m (28 ft. 10 in.)
В	Overall Height	3.13 m (10 ft. 3 in.)	_
В	Overall Height	_	3.21 m (10 ft. 6 in.)
C	Rear-End Swing Radius	2.32 m (7 ft. 7 in.)	2.32 m (7 ft. 7 in.)
D	Engine Cover Height	2.48 m (8 ft. 2 in.)	2.48 m (8 ft. 2 in.)
Ε	Counterweight Clearance	1.24 m (4 ft. 1 in.)	1.24 m (4 ft. 1 in.)
F	Overall Width of Upperstructure	2.45 m (8 ft. 0 in.)	2.45 m (8 ft. 0 in.)
G	Overall Height of Cab	3.13 m (10 ft. 3 in.)	3.13 m (10 ft. 3 in.)
Н	Overall Width of Tires	2.55 m (8 ft. 4 in.)	2.55 m (8 ft. 4 in.)
J	Minimum Ground Clearance	0.35 m (13.8 in.)	0.35 m (13.8 in.)
K	Wheelbase	2.65 m (8 ft. 8 in.)	2.65 m (8 ft. 8 in.)
L	Swing Center to Rear Axle	1.15 m (3 ft. 9 in.)	1.15 m (3 ft. 9 in.)
M	Front Overhang		
	Front Outrigger and Rear Outrigger	1.38 m (4 ft. 6 in.)	1.38 m (4 ft. 6 in.)
	Front Blade and Rear Outrigger	1.32 m (4 ft. 4 in.)	1.32 m (4 ft. 4 in.)
N	Rear Overhang	1.09 m (3 ft. 7 in.)	1.09 m (3 ft. 7 in.)
0	Maximum Blader Lower	0.22 m (8.7 in.)	0.22 m (8.7 in.)
Р	Overall Height of Blade	0.59 m (23.2 in.)	0.59 m (23.2 in.)
Q	Maximum Blade Raise	0.37 m (14.6 in.)	0.37 m (14.6 in.)

2.53 m (8 ft. 4 in.)

2.47 m (8 ft. 1 in.)

3.44 m (11 ft. 3 in.)

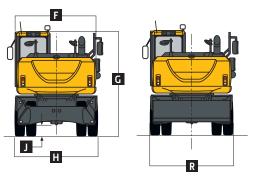
4.00 m (13 ft. 1 in.)

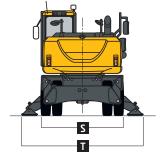
2.53 m (8 ft. 4 in.)

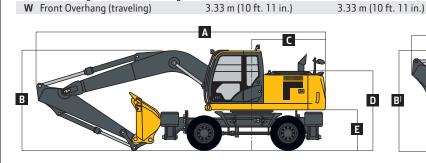
2.47 m (8 ft. 1 in.)

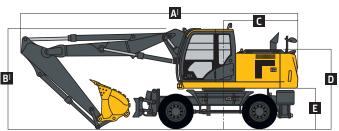
3.44 m (11 ft. 3 in.)

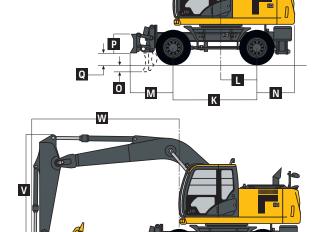
4.00 m (13 ft. 1 in.)

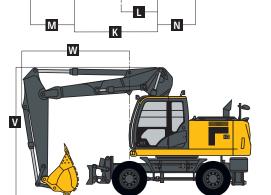












Lift Capacities 190G W

Boldface type indicates hydraulically limited capacities; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 600-kg (1,323 lb.) bucket, 2.71-m (8 ft. 11 in.) arm, and standard counterweight; and situated on firm, level, uniform supporting surface. Figures do not exceed 87% of hydraulic capacity or 75% of weight needed to tip machine.

Load Point Height	1.5 m	(5 ft.)	3.0 m ((10 ft.)	4.5 m (15 ft.)	6.0 m ((20 ft.)	7.5 m	25 ft.)
Horizontal Distance from Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
Vith monoblock boom, rear				Over blue	OTC: !!OIIC	Over Side	Over mone	Over blue	Over mone	Over Side
6.0 m (20 ft.)	35 - 7 - 1						4420	4420		
, ,							(9,420)	(9,420)		
4.5 m (15 ft.)					6430	6430	5320	4730	3330	3170
					(13,740)	(13,740)	(11,560)	(10,160)		
3.0 m (10 ft.)					7910	7280	5930	4520	4730	3090
					(17,040)	(15,660)	(12,850)	(9,730)	(9,870)	(6,630)
1.5 m (5 ft.)					9060	6820	6470	4310	4620	3000
					(19,570)	(14,670)	(14,010)	(9,280)	(9,930)	(6,440)
Ground Line					9290	6580	6530	4170	4550	2930
			(9,010)	(9,010)	(20,130)	(14,140)	(14,030)	(8,960)	(9,770)	(6,290)
–1.5 m (–5 ft.)			7920	7920	8650	6520	6300	4110		
			(18,050)	(18,050)	(18,740)	(14,000)	(13,600)	(8,840)		
-3.0 m (-10 ft.)			9560	9560	7140	6590	5100	4150		
			(20,680)	(20,680)	(15,380)	(14,150)	(10,810)	(8,950)		
With monoblock boom and 4	outriggers dov	vn	, . ,	, ,		, , ,	, . ,	, , ,		
6.0 m (20 ft.)							4420	4420		
							(9,420)	(9,420)		
4.5 m (15 ft.)					6430	6430	5320	5320	3330	3330
					(13,740)	(13,740)	(11,560)	(11,560)		
3.0 m (10 ft.)					7910	7910	5930	5280	4870	3620
					(17,040)	(17,040)	(12,850)	(11,350)	(9,870)	(7,760)
1.5 m (5 ft.)					9060	8100	6470	5060	4830	3520
					(19,570)	(17,410)	(14,010)	(10,890)	(10,370)	(7,560)
Ground Line					9290	7850	6660	4910	4750	3450
			(9,010)	(9,010)	(20,130)	(16,850)	(14,420)	(10,560)	(10,210)	(7,410)
–1.5 m (–5 ft.)			7920	7920	8650	7780	6300	4850		
			(18,050)	(18,050)	(18,740)	(16,700)	(13,600)	(10,430)		
-3.0 m (-10 ft.)			9560	9560	7140	7140	5100	4900		
			(20,680)	(20,680)	(15,380)	(15,380)	(10,810)	(10,550)		
With 2-piece boom, rear out	riggers, and fro	nt blade dowi	n							
6.0 m (20 ft.)							3980	3980		
							(8,790)	(8,790)		
4.5 m (15 ft.)					4860	4860	4330	4330	2820	2820
					(10,510)	(10,510)	(9,450)	(9,450)		
3.0 m (10 ft.)			8700	8700	6500	6500	5050	4710	4430	3210
			(19,130)	(19,130)	(13,970)	(13,970)	(10,960)	(10,130)	(8,980)	(6,840)
1.5 m (5 ft.)			10 630	10 630	8100	7210	5830	4670	4740	3140
			(23,330)	(23,330)	(17,470)	(15,500)	(12,630)	(10,070)	(10,190)	(6,700)
Ground Line	8670	8670	12 770	12 770	9010	7250	6400	4710	4670	3030
	(19,420)	(19,420)	(28,000)	(28,000)	(19,490)	(15,600)	(13,860)	(10,070)	(9,980)	(6,460)
–1.5 m (–5 ft.)	13 900	13 900	14 840	14 660	9230	7490	6610	4460		
	(31,210)	(31,210)	(32,210)	(31,430)	(19,990)	(16,090)	(14,310)	(9,530)		
–3.0 m (–10 ft.)	22 710	22 710	15 310	15 260	9590	7130	6220	4280		
						(15,250)	(13,080)			

Lift Capacities (continued)	190G W									
Boldface type indicates hydraulically limited capacities; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped										
with 600-kg (1,323 lb.) bucket, 2.71-m (8 ft. 11 in.) arm, and standard counterweight; and situated on firm, level, uniform supporting surface. Figures do not exceed										
87% of hydraulic capacity or 75% of weight needed to tip machine.										
Load Point Height 1.5 m (5 ft.) 3.0 m (10 ft.) 4.5 m (15 ft.) 6.0 m (20 ft.) 7.5 m (25 ft.)										25 ft.)
Horizontal Distance from										
Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 2-piece boom and 4 ou	triggers down									
6.0 m (20 ft.)							3980	3980		
							(8,790)	(8,790)		
4.5 m (15 ft.)					4860	4860	4330	4330	2820	2820
					(10,510)	(10,510)	(9,450)	(9,450)		
3.0 m (10 ft.)			8700	8700	6500	6500	5050	5050	4430	3730
			(19,130)	(19,130)	(13,970)	(13,970)	(10,960)	(10,960)	(8,980)	(7,970)
1.5 m (5 ft.)			10 630	10 630	8100	8100	5830	5310	4770	3660
			(23,330)	(23,330)	(17,470)	(17,470)	(12,630)	(11,430)	(10,390)	(7,820)
Ground Line	8670	8670	12 770	12 770	9010	8280	6400	5370	4860	3560
	(19,420)	(19,420)	(28,000)	(28,000)	(19,490)	(17,820)	(13,860)	(11,600)	(10,410)	(7,610)
–1.5 m (–5 ft.)	13 900	13 900	14 840	14 840	9230	8490	6610	5230		
	(31,210)	(31,210)	(32,210)	(32,210)	(19,990)	(18,300)	(14,310)	(11,190)		
-3.0 m (-10 ft.)	22 710	22 710	15 310	15 310	9590	8450	6220	5040		
	(51,650)	(51,650)	(33,190)	(33,190)	(20,730)	(18,070)	(13,080)	(10,810)		

Buckets 190G W

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Buckets are equipped with John Deere TK-Series Bucket Teeth standard. Replaceable cutting edges and a variety of teeth are available through John Deere Parts. Optional side cutters add 150 mm (6 in.) to bucket widths. Capacities are SAE heaped ratings.

									Arm Di	g Force,			
Type Bucket	Bucket	Width	Bucket	Capacity	Bucket	Weight	Bucket I	Dig Force	2.71 m (8	ft. 11 in.)	Bucket T	ip Radius	Number of Teeth
	mm	in.	m^3	cu. yd.	kg	lb.	kN	lb.	kN	lb.	mm	in.	
General-Purpose													
High-Capacity	762	30	0.60	0.79	650	1,432	122.7	27,582	91.2	20,512	1473	58.00	4
	914	36	0.76	1.00	735	1,621	122.7	27,582	91.2	20,512	1473	58.00	5
	1067	42	0.93	1.22	812	1,790	122.7	27,582	91.2	20,512	1473	58.00	5
	1219	48	1.09	1.43	896	1,976	122.7	27,582	91.2	20,512	1473	58.00	6
Heavy-Duty	610	24	0.40	0.52	543	1,197	123.6	27,780	91.5	20,563	1463	57.61	4
, ,	762	30	0.54	0.71	621	1,369	123.5	27,768	91.5	20,561	1463	57.61	4
	914	36	0.69	0.90	707	1,559	123.5	27,768	91.5	20,561	1463	57.61	5
	1067	42	0.83	1.09	785	1,731	123.5	27,768	91.5	20,561	1463	57.61	5
	1219	48	0.99	1.29	871	1,921	123.5	27,768	91.5	20,561	1463	57.61	6
Heavy-Duty													
High-Capacity	610	24	0.43	0.56	646	1,424	122.7	27,582	91.2	20,512	1473	58.00	4
, ,	762	30	0.58	0.76	723	1,593	122.7	27,582	91.2	20,512	1473	58.00	4
	914	36	0.74	0.97	808	1,782	122.7	27,582	91.2	20,512	1473	58.00	5
	1067	42	0.91	1.19	885	1,951	122.7	27,582	91.2	20,512	1473	58.00	5
	1219	48	1.06	1.39	577	1,271	122.7	27,582	91.2	20,512	1473	58.00	6
Ditching	1524	60	0.87	1.14	577	1,271	170.3	38,280	101.3	22,778	1057	41.62	0
General-Purpose													
High-Capacity	1219	48	1.09	1.43	577	1,271	122.7	27,582	91.2	20,512	1473	57.99	6

230G W

Engine 230G W
Manufacturer and Model Isuzu 4HK1

Non-Road Emission Standard EPA Interim Tier 4/EU Stage IIIB

Cylinders 4

Displacement 5.2 L (317 cu. in.)

Net Peak Power (ISO 9249) 119 kW (159 hp) at 2,000 rpm

Off-Level Capacity 60% (31 deg.)

Aspiration Turbocharged, air-to-air charge-air cooler

Cooling

High-efficiency, direct-drive suction-type fan

Powertrain

2-speed propel with creeper mode and automatic shift

Maximum Travel Speed

 Creeper
 2.9 km/h (1.8 mph)

 Low
 7.4 km/h (4.6 mph)

 High
 27.5 km/h (17.1 mph)

Front Axle All-wheel drive; can be locked hydraulically in any position

Oscillation ± 6 deg.

Brakes Maintenance-free wet-disc brakes on front and rear axles; fully hydraulic service brakes

Tires Standard size, dual-traction-type 11.00-20 16PR tires

Drawbar Pull 11 115 kgf (24,504 lbf)

Hydraulics

Main Pumps 2 variable-displacement axial-piston pumps

Pump Flow, Maximum x 2 189 L/min. (49.9 gpm)

System Operating Pressure

 Implement Circuits
 34 300 kPa (4,975 psi)

 Travel Circuits
 35 300 kPa (5,120 psi)

 Swing Circuits
 30 200 kPa (4,380 psi)

 Power Boost
 38 000 kPa (5,511 psi)

Controls Pilot levers, short stroke, low-effort hydraulic pilot controls with shutoff lever

Cylinders

	Bore	Rod Diameter	Stroke
Monoblock Boom (2)	125 mm (4.9 in.)	85 mm (3.4 in.)	1241 mm (48.9 in.)
2-Piece Boom (2)	130 mm (5.1 in.)	85 mm (3.4 in.)	1024 mm (40.3 in.)
Positioning, 2-Piece Boom (2)	180 mm (7.1 in.)	110 mm (4.3 in.)	680 mm (26.8 in.)
Arm (1)	135 mm (5.3 in.)	95 mm (3.7 in.)	1475 mm (58.1 in.)
Bucket (1)	115 mm (4.5 in.)	80 mm (3.2 in.)	1060 mm (41.7 in.)

Electrical

Voltage 24 volt
Number of Batteries (12 volt) 2
Alternator Rating 50 amp

Lights (6) Headlights (2), top of cab (2), rear of cab (1), and boom (1)

Driving Lights Headlights (2), turn signals and hazard lights, brake lights, and side marker lights

Swing Mechanism

Speed 11.2 rpm

Torque 61 500 Nm (45,360 lb.-ft.)

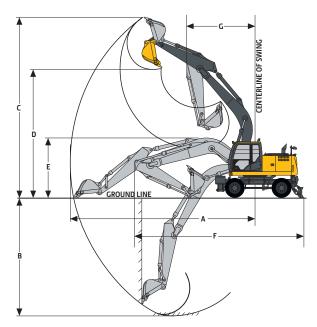
Serviceability

Refill Capacities

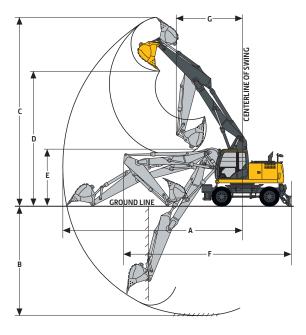
Fuel Tank	400 L (105.7 gal.)
Engine Coolant	25 L (6.6 gal.)
Engine Oil with Filter	23 L (6.1 gal.)
Hydraulic Tank	130 L (34.3 gal.)
Hydraulic System	270 L (71.3 gal.)
Swing Drive	6.2 L (6.6 qt.)
Transmission	2.5 L (2.6 qt.)



Serviceability (continued)	230G W	
Refill Capacities (continued)		
Differential Gear		
Front	11 L (2.9 gal.)	
Rear	14.5 L (3.8 gal.)	
Front and Rear Hubs	2.5 L x 2 (2.6 qt. x 2)	
Operating Weights		
With full fuel tank; 79-kg (175 lb.) opera and 4500-kg (9,921 lb.) counterweight	tor; 0.8-m³ (1.04 cu. yd.), 900-m	m (35 in.), 660-kg (1,455 lb.) general-purpose bucket; 2.91-m (9 ft. 7 in.) arm; standard gauge;
	Monoblock Boom	2-Piece Boom
Front Outrigger and Rear Outrigger	23 600 kg (52,030 lb.)	24 140 kg (53,220 lb.)
Front Blade and Rear Outrigger	23 290 kg (51,350 lb.)	23 830 kg (52,540 lb.)
Operating Dimensions		
	Monoblock Boom	2-Piece Boom
Arm Digging Force		
SAE	110 kN (24,729 lb.)	110 kN (24,729 lb.)
ISO	114 kN (25,628 lb.)	114 kN (25,628 lb.)
Bucket Digging Force		
SAE	141 kN (31,698 lb.)	141 kN (31,698 lb.)
ISO	158 kN (35,520 lb.)	158 kN (35,520 lb.)
A Maximum Reach	10.28 m (33 ft. 9 in.)	10.03 m (32 ft. 11 in.)
B Maximum Digging Depth	6.31 m (20 ft. 8 in.)	6.14 m (20 ft. 2 in.)
C Maximum Cutting Height	10.25 m (33 ft. 7 in.)	10.36 m (34 ft. 0 in.)
D Maximum Dumping Height	7.38 m (24 ft. 3 in.)	7.43 m (24 ft. 5 in.)
E Overall Height	3.19 m (10 ft. 6 in.)	3.32 m (10 ft. 11 in.)
F Overall Length		
Front Outrigger and Rear Outrigger	9.96 m (32 ft. 8 in.)	9.64 m (31 ft. 7 in.)
Front Blade and Rear Outrigger	9.96 m (32 ft. 8 in.)	9.64 m (31 ft. 7 in.)
G Minimum Swing Radius	3.55 m (11 ft. 8 in.)	3.42 m (11 ft. 3 in.)







230G W EXCAVATOR WITH 2-PIECE BOOM

Machine Dimensions

230G W

With standard gauge and 2.91-m (9 ft. 7 in.) arm; dimensions are provided for both the front and rear outrigger configuration, and for the front blade and

Overall Width with Outrigger

Extended

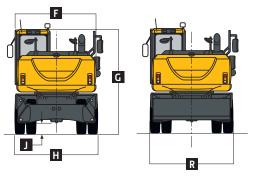
fig	uration, and for the front blade and		
rea	ar outrigger configuration	Monoblock Boom	2-Piece Boom
Α	Overall Length	9.96 m (32 ft. 8 in.)	_
ΑI	Overall Length	_	9.64 m (31 ft. 8 in.)
В	Overall Height	3.19 m (10 ft. 6 in.)	_
В	Overall Height	_	3.32 m (10 ft. 11 in.)
C	Rear-End Swing Radius	2.89 m (9 ft. 6 in.)	2.89 m (9 ft. 6 in.)
D	Engine Cover Height	2.64 m (8 ft. 8 in.)	2.64 m (8 ft. 8 in.)
Ε	Counterweight Clearance	1.25 m (4 ft. 1 in.)	1.25 m (4 ft. 1 in.)
F	Overall Width of Upperstructure	2.73 m (8 ft. 11 in.)	2.73 m (8 ft. 11 in.)
G	Overall Height of Cab	3.19 m (10 ft. 6 in.)	3.19 m (10 ft. 6 in.)
Н	Overall Width of Tires	2.75 m (9 ft. 0 in.)	2.75 m (9 ft. 0 in.)
J	Minimum Ground Clearance	0.35 m (13.6 in.)	0.35 m (13.6 in.)
K	Wheelbase	2.75 m (9 ft. 0 in.)	2.75 m (9 ft. 0 in.)
L	Swing Center to Rear Axle	1.35 m (4 ft. 5 in.)	1.35 m (4 ft. 5 in.)
M	Front Overhang		
	Front Outrigger and Rear Outrigger	1.38 m (4 ft. 6 in.)	1.38 m (4 ft. 6 in.)
	Front Blade and Rear Outrigger	1.34 m (4 ft. 5 in.)	1.34 m (4 ft. 5 in.)
Ν	Rear Overhang	1.09 m (3 ft. 7 in.)	1.09 m (3 ft. 7 in.)
0	Maximum Blader Lower	0.21 m (8.3 in.)	0.21 m (8.3 in.)
Р	Overall Height of Blade	0.60 m (23.6 in.)	0.60 m (23.6 in.)
Q	Maximum Blade Raise	0.38 m (14.8 in.)	0.38 m (14.8 in.)
R	Overall Width of Blade	2.73 m (8 ft. 11 in.)	2.73 m (8 ft. 11 in.)
S	Overall Width with Outrigger	2.74 m (9 ft. 0 in.)	2.74 m (9 ft. 0 in.)
	Retracted		

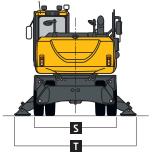
3.91 m (12 ft. 10 in.)

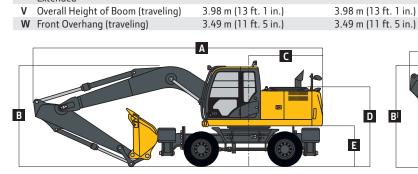
3.98 m (13 ft. 1 in.)

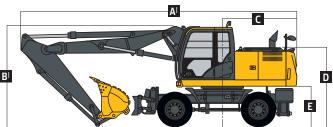
3.91 m (12 ft. 10 in.)

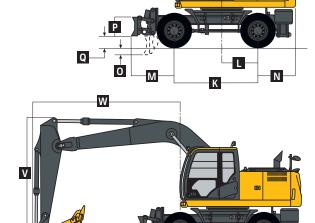
3.98 m (13 ft. 1 in.)

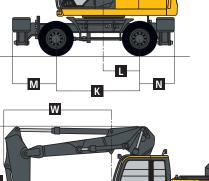












Boldface type indicates hydraulically limited capacities; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 666-kg (1,468 lb.) bucket, 2.91-m (9 ft. 7 in.) arm, and standard counterweight; and situated on firm, level, uniform supporting surface. Figures do not exceed 87% of hydraulic capacity or 75% of weight needed to tip machine.

hydraulic capacity or 75% of Load Point Height			e. 3.0 m (110 ft 1	4.5 m	(15 f+)	6.0 m (20 f+ 1	7.5 m (75 f+ 1
Horizontal Distance from					4.5 III ((1511.)	0.0 111 (2011.)	7.5 111 (25 11.)
Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With monoblock boom, rear	outriggers, and	front blade a	lown							
6.0 m (20 ft.)							5250	5250	4460	4460
/ F - / / I F (t) \					77/0	77/0	(11,490)	(11,490)	(8,700)	(8,700)
4.5 m (15 ft.)					7340	7340	6080	6080	5490	4530
3.0 m (10 ft.)					(15,750) 10 010	(15,750) 10 010	(13,190) 7260	(13,190) 6310	(11,990) 6030	(9,720) 4390
3.0 m (10 ft.)					(21,440)	(21,440)	(15,690)	(13,580)	(13,100)	(9,450)
1.5 m (5 ft.)					12 130	9500	8360	6040	6580	4260
(5,					(26,120)	(20,440)	(18,070)	(13,000)	(14,180)	(9,160)
Ground Line					12 910	9260	9020	5870	6490	4160
					(27,900)	(19,890)	(19,500)	(12,620)	(13,950)	(8,960)
–1.5 m (–5 ft.)			7790	7790	12 610	9220	9040	5810	6460	4130
			(17,710)	(17,710)	(27,290)	(19,800)	(19,540)	(12,490)	(13,890)	(8,900)
–3.0 m (–10 ft.)			13 470	13 470	11 360	9320	8230	5860		
			(30,720)	(30,720)	(24,520)	(20,020)	(17,690)	(12,610)		
–4.5 m (–15 ft.)					8620	8620				
10/:46	/· - · · * · · · · · · · · · · · · · · · · 				(18,240)	(18,240)				
With monoblock boom and	4 outriggers aov	vn					5250	5250	4460	4460
6.0 m (20 ft.)							(11,490)	(11,490)	(8,700)	(8,700)
4.5 m (15 ft.)					7340	7340	6080	6080	5490	5290
1.5 111 (15 12.)					(15,750)	(15,750)	(13,190)	(13,190)	(11,990)	(11,370)
3.0 m (10 ft.)					10 010	10 010	7260	7260	6030	5160
` ,					(21,440)	(21,440)	(15,690)	(15,690)	(13,100)	(11,090)
1.5 m (5 ft.)					12 130	11 440	8360	7140	6580	5020
					(26,120)	(24,570)	(18,070)	(15,370)	(14,270)	(10,800)
Ground Line					12 910	11 180	9020	6960	6730	4920
					(27,900)	(23,980)	(19,500)	(14,980)	(14,470)	(10,580)
–1.5 m (–5 ft.)			7790	7790	12 610	11 140	9040	6900	6700	4890
2.2 / 225 /			(17,710)	(17,710)	(27,290)	(23,890)	(19,540)	(14,840)	(14,420)	(10,530)
−3.0 m (−10 ft.)			13 470	13 470	11 360	11 250	8230	6950		
(C (1C ft)			(30,720)	(30,720)	(24,520)	(24,120)	(17,690)	(14,960)		
–4.5 m (–15 ft.)					8620 (18,240)	8620 (18,240)				
With 2-piece boom, rear out	riagors and fro	nt blada dow	2		(10,240)	(10,240)				
7.5 m (25 ft.)	riggers, und iro	iii bidde dowi	1				4340	4340		
, .5 m (25 it.)							(7,850)	(7,850)		
6.0 m (20 ft.)							5560	5560		
,,							(12,100)	(12,100)		
4.5 m (15 ft.)					6660	6660	6330	6330	5180	4700
					(14,390)	(14,390)	(13,770)	(13,770)	(10,650)	(10,060)
3.0 m (10 ft.)			11 090	11 090	9610	9610	7310	6690	6210	4690
			(24,530)	(24,530)	(20,660)	(20,660)	(15,840)	(14,410)	(13,540)	(10,020)
1.5 m (5 ft.)			13 990	13 990	11 700	10 290	8320	6630	6660	4600
C 11:	0210	0230	(30,920)	(30,920)	(25,220)	(22,130)	(18,010)	(14,290)	(14,460)	(9,840)
Ground Line	8310	8310	16 790	16 790	12 710	10 320	8980	6660	6820	4470
–1.5 m (–5 ft.)	(18,590)	(18,590)	(36,730)	(36,730)	(27,490)	(22,180)	(19 450) 9160	(14,340)	(14,610) 6690	(9,570) 4340
(.וו כ–ן ווו כ.ו	13 890 (31,150)	13 890 (31,150)	20 290 (44,280)	20 290 (44,280)	12 880 (27,880)	10 570 (22,690)	(19,830)	6490 (13,910)	(14,150)	(9,290)
–3.0 m (–10 ft.)	22 540	22 540	21 550	21 550	13 250	10 370	9010	6250	(17,130)	(3,430)
5.5 m (10 m.)	(51,050)	(51,050)	(46,640)	(46,640)	(28,770)	(22,180)	(19,160)	(13,400)		
–4.5 m (–15 ft.)	31 020	31 020	19 540	19 540	(==,,,,,,,)	(22,100)	(,100)	(13,100)		
,,	(69,820)	(69,820)	(41,120)	(41,120)						

Lift Capacities (continued)	230G W									
Boldface type indicates hydraulically limited capacities; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped										
with 666-kg (1,468 lb.) bucket, 2.91-m (9 ft. 7 in.) arm, and standard counterweight; and situated on firm, level, uniform supporting surface. Figures do not exceed										
87% of hydraulic capacity or 75% of weight needed to tip machine.										
Load Point Height	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)	
Horizontal Distance from		(= ::-)		, ,		, ,	210 111	,,		,
Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 2-piece boom and 4 ou	triggers down									
7.5 m (25 ft.)							4340	4340		
							(7,850)	(7,850)		
6.0 m (20 ft.)							5560	5560		
							(12,100)	(12,100)		
4.5 m (15 ft.)					6660	6660	6330	6330	5180	5180
					(14,390)	(14,390)	(13,770)	(13,770)	(10,650)	(10,650)
3.0 m (10 ft.)			11 090	11 090	9610	9610	7310	7310	6210	5440
			(24,530)	(24,530)	(20,660)	(20,660)	(15,840)	(15,840)	(13,540)	(11,640)
1.5 m (5 ft.)			13 990	13 990	11 700	11 700	8320	7600	6660	5360
			(30,920)	(30,920)	(25,220)	(25,220)	(18,010)	(16,370)	(14,460)	(11,480)
Ground Line	8310	8310	16 790	16 790	12 710	11 930	8980	7640	6970	5240
	(18,590)	(18,590)	(36,730)	(36,730)	(27,490)	(25,640)	(19,450)	(16,460)	(15,050)	(11,210)
–1.5 m (–5 ft.)	13 890	13 890	20 290	20 290	12 880	12 130	9160	7610	6810	5100
	(31,150)	(31,150)	(44,280)	(44,280)	(27,880)	(26,080)	(19,830)	(16,300)	(14,150)	(10,930)
–3.0 m (–10 ft.)	22 540	22 540	21 550	21 550	13 250	12 370	9010	7370		
	(51,050)	(51,050)	(46,640)	(46,640)	(28,770)	(26,440)	(19,160)	(15,810)		
–4.5 m (–15 ft.)	31 020	31 020	19 540	19 540						

(41,120) (41,120)

(69,820)

(69,820)

Buckets 230G W

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Buckets are equipped with John Deere TK-Series Bucket Teeth standard. Replaceable cutting edges and a variety of teeth are available through John Deere Parts. Optional side cutters add 150 mm (6 in.) to bucket widths. Capacities are SAE heaped ratings.

	-								Arm Di	g Force,			
Type Bucket	Bucket Width		Bucket Capacity		Bucket	Bucket Weight		Bucket Dig Force		2.91 m (9 ft. 7 in.)		ip Radius	Number of Teeth
	mm	in.	\mathbf{m}^3	cu. yd.	kg	lb.	kN	lb.	kN	lb.	mm	in.	
General-Purpose													
High-Capacity	762	30	0.60	0.79	650	1,432	153.5	34,517	110.6	24,855	1473	58.00	4
	914	36	0.76	1.00	735	1,621	153.2	34,450	110.6	24,855	1473	58.00	5
	1067	42	0.93	1.22	812	1,790	153.2	34,450	110.6	24,855	1473	58.00	5
	1219	48	1.09	1.43	896	1,976	153.5	34,517	110.6	24,855	1473	58.00	6
Heavy-Duty	610	24	0.40	0.52	543	1,197	154.6	34,758	110.8	24,913	1463	57.61	4
	762	30	0.54	0.71	621	1,369	154.6	34,751	110.8	24,913	1463	57.61	4
	914	36	0.69	0.90	707	1,559	154.6	34,751	110.8	24,913	1463	57.61	5
	1067	42	0.83	1.09	785	1,731	154.6	34,751	110.8	24,913	1463	57.61	5
	1219	48	0.99	1.29	871	1,921	154.6	34,751	110.8	24,913	1463	57.61	6
Heavy-Duty													
High-Capacity	610	24	0.43	0.56	646	1,424	153.5	34,517	110.6	24,855	1473	58.00	4
	762	30	0.58	0.76	723	1,593	153.5	34,517	110.6	24,855	1473	58.00	4
	914	36	0.74	0.97	808	1,782	153.5	34,517	110.6	24,855	1473	58.00	5
	1067	42	0.91	1.19	885	1,951	153.5	34,517	110.6	24,855	1473	58.00	5
	1219	48	1.06	1.39	970	2,139	153.5	34,517	110.6	24,855	1473	58.00	6
Ditching	1524	60	0.87	1.14	577	1,271	214.0	48,102	122.2	27,463	1057	41.62	0
General-Purpose High-Capacity	1219	48	1.09	1.43	577	1,271	153.5	34,517	110.6	24,855	1473	57.99	6

Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

90G 230G	Engine	190G	230G	Upperstructure
• •	Auto-idle system	•	•	Right- and left-hand mirrors
• •	Automatic belt-tension device		•	Vandal locks with ignition key: Cab door /
• •	Batteries (2 – 12 volt)			Fuel cap / Service doors
• •	Coolant recovery tank			Front Attachments
•	Dual-element dry-type air filter	•		5.5-m (18 ft. 0 in.) monoblock boom
•	Electronic engine control			with 2.71-m (8 ft. 11 in.) arm
•	Enclosed fan guard (conforms to SAE		•	5.68-m (18 ft. 8 in.) monoblock boom with 2.91-m (9 ft. 7 in.) arm
	J1308)	•		Variable-geometry, 2-piece boom with
	Engine coolant to –37 deg. C (–34 deg. F)	_		2.71-m (8 ft. 11 in.) arm
•	Fuel filter with water separator		A	Variable-geometry, 2-piece boom with
•	Full-flow oil filter			2.91-m (9 ft. 7 in.) arm
•	Turbocharger with charge-air cooler	•	•	Centralized lubrication system
	500-hour engine-oil-change interval		•	Dirt seals on all bucket pins
•	Programmable auto-shutdown	A	A	Buckets: Ditching / General purpose /
	Hydraulic System			General-purpose high capacity / Heavy
•	Reduced-drift valve for boom down,			duty / Heavy-duty high capacity / Side
	arm in			cutters and teeth
	Auxiliary hydraulic valve section			Operator's Station
•	Spring-applied, hydraulically released		•	Adjustable independent-control positions
	automatic swing brake Brake valves for travel circuits			(levers-to-seat, seat-to-pedals)
			•	AM/FM radio
•	Individual control of outriggers			Auto climate control/air conditioner
.	Auxiliary hydraulic lines			with heater and pressurizer
A	Auxiliary pilot and electric controls			Built-in Operator's Manual storage
	Hydraulic filter restriction indicator			compartment and manual
•	Low-flow/medium-pressure-assist	•	•	Cell-phone power outlet, 12 volt
	hydraulics		•	Coat hook
	Undercarriage	•		Deluxe suspension cloth seat with
•	Brakes, 4 wheel, maintenance free, wet disc	_	_	100-mm (4 in.) adjustable armrests
	Creeper speed range			Floor mat
	Front axle, oscillating, lockable	•		Front windshield wiper with intermit-
	Front blade and rear outriggers (2)		_	tent speeds
	22		•	Gauges (illuminated): Engine coolant /
	Outriggers (4)			Fuel level / Speedometer
•	Parking brake		•	Horn, electric
•	Dual traction-type tires, 10.00-20, 14PR		•	Hour meter, electric
	with spacer		•	Hydraulic shutoff lever, all controls
•	Dual traction-type tires, 11.00-20, 16PR with spacer		•	Hydraulic warm-up control
	Toolbox on left chassis		•	Interior light
•	1001POV OIL IELF CHB3312			Large cup holder
		•	•	Machine Information Center (MIC)
		•	•	Mode selectors (illuminated): Power
				modes (3) / Work mode (1)

190G 230G	Operator's Station	(continued)
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• •	Multifunction, color LCD monitor with: Diagnostic capability / Multiple-language capabilities / Maintenance tracking / Clock / System monitoring with alarm features: Auto-idle indicator, Auto-shut-
	down indicator, brake pressure audible
	alarm, engine air cleaner restriction
	indicator light, engine check, engine
	coolant temperature indicator light
	with audible alarm, engine oil pressure
	indicator light with audible alarm, low-
	alternator-charge indicator light, low-
	fuel indicator light, fault-code alert
	indicator, fuel-rate display, water-in-
	fuel light, wiper-mode indicator, work-
	lights-on indicator, and work-mode indicator

- Motion alarm with cancel switch (conforms to SAE J994)
- Power-boost switch on right control lever
- SAE 2-lever control pattern
- Seat belt, 51 mm (2 in.), retractable
- ▲ Seat belt, 76 mm (3 in.), non-retractable
- Tinted glass
- Transparent tinted overhead hatch
- Tilting steering column
- Sun visor
- Windshield washer/wiper with constant and intermittent speeds
- ▲ Window vandal-protection covers

Electrical

- 50-amp alternator
- Blade-type multi-fused circuits
- Positive-terminal battery covers
- JDLink™ Ultimate wireless communication system (available in specific countries; see your dealer for details)

Lights

- Headlights (2)
- Work lights, top of cab (2), rear of cab
 (1), and boom (1)
- Turn signals / Hazard lights
- Brake lights
- Side marker lights



High/low travel mode with creeper range