



D

EXCAVATORS

120D | 160D LC





Raise your standards.

Your customers expect big things from you, so why shouldn't you expect the same from your mid-size excavator? Delivering the power, smoothness, control, and ease of operation of larger John Deere excavators, the 120D and 160D LC exceed everyone's expectations. With strong digging forces, outstanding lift capability, reach, and swing torque,

they produce like big machines. They operate like them, too, with a spacious, comfortable cab offering generous legroom and unsurpassed visibility. And with an efficient cooling system and rugged John Deere diesel engines certified to EPA Tier 3/ EU Stage IIIA emissions, you can plan on typical Deere uptime and durability, too.

The 120D and 160D LC deliver more digging force, swing torque, drawbar pull, and lift capability, with less emissions and noise.

Extended engine and hydraulic oil-service intervals increase uptime and reduce daily operating costs.

Spacious operating stations with more legroom and more glass deliver unsurpassed comfort and visibility.

Powerwise III™ engine/hydraulic management system maximizes power output, saves fuel, and delivers smooth, predictable multifunction hydraulic operation.

The cool-on-demand system features a hydraulically driven, highly efficient fan on the 160D LC (optional on the 120D) that runs only as needed, reducing noise, fuel consumption, and operating costs. The reversing option on models equipped with cool-on-demand automatically back-blows cooler cores to reduce debris buildup.

EPA Tier 3/EU Stage IIIA John Deere diesels deliver power without compromise in all conditions.



Specifications

120D

160D LC

Net Power	69 kW (93 hp) . . .	90 kW (121 hp)	
Operating Weight	12 926 kg	18 151 kg (28,498 lb.)	(39,980 lb.)
Lift Capacity	2615 kg	4129 kg (5,766 lb.)	(9,094 lb.)
Digging Depth	6.06 m	6.49 m (19 ft. 11 in.)	(21 ft. 4 in.)
Arm Breakout Force	57.0 kN	76.7 kN (12,823 lb.)	(17,243 lb.)

The 120D and 160D LC are perfect for “dig-and-run” jobs such as excavating basements. They transport easily between jobsites.

Additional hydraulic capability a necessity? Factory-installed high-pressure, high-flow auxiliary hydraulic packages meet the need.

The 160D’s operating weight has been increased compared to its predecessor, enhancing stability and capacity.

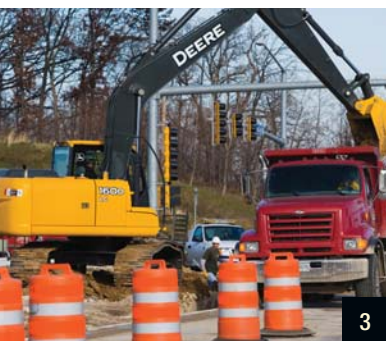
Powerwise III perfectly balances engine performance and hydraulic flow for fast, smooth, and predictable operation. One work mode makes it easy to be productive in any application.



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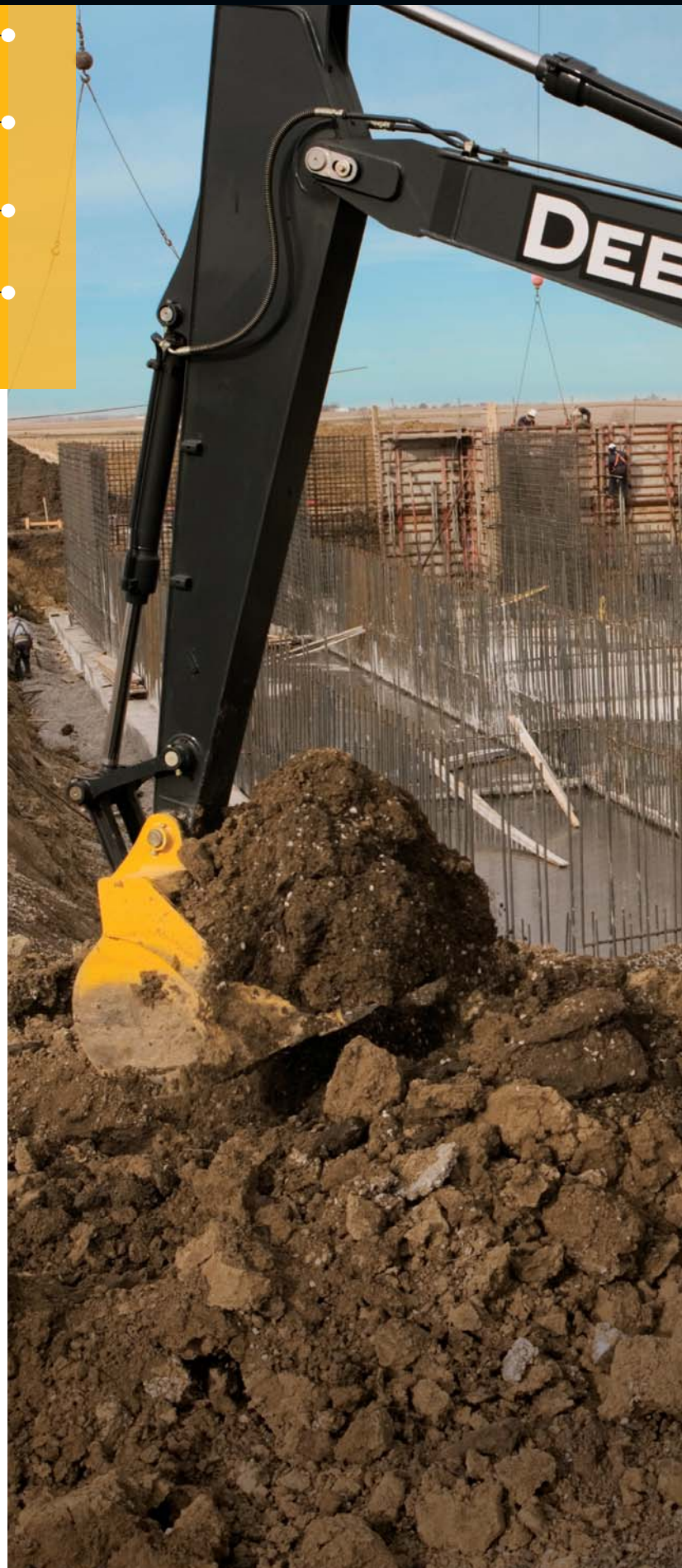


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1. For work that requires extra finesse, best-in-class metering and superb multifunction operation deliver the control you need.
2. When the digging gets tough, simply press the power-boost button (160D LC only) for additional hydraulic muscle.
3. Hydraulic recirculation system delivers more efficient flow to the boom and arm, speeding multifunction operation and cycle times.
4. Optional backfill blade on the 120D handles backfill and cleanup duties, while providing additional stability for running breakers and other heavy-duty attachments.





Mid-size stature. Big-size results.

With fast hydraulics and impressive digging force, swing torque, drawbar pull, and lift capability, you can expect big things from the 120D and 160D LC. The Powerwise III engine/hydraulic management system provides pinpoint metering for smooth, predictable control. And when the digging gets tough, power boost (160D LC only) helps pull

you through. But even with their extra ability, these excavators are still highly maneuverable — working with ease around obstacles and easy to transport between jobsites. Whether you're digging basements, loading trucks, or placing pipe, the 120D or 160D LC may well be all the machine you need.



Bring out your operators' best.

With the 120D and 160D LC, you get more of everything an operator wants. A wider expanse of tinted glass for virtually unobstructed visibility. Substantially more legroom. Intuitive multifunction monitor. Plus numerous other creature comforts and conveniences including automatic climate

control, generous storage, and available heated air-suspension seat. And yet, for all of the enhancements, the most appreciated amenity may well be the peace and quiet. The sound-suppressed cab and low-noise fan noticeably reduce fatigue-causing noise. For increased productivity all day long.



Deluxe-suspension multi-position seat has 26.7 cm (10½ in.) of travel, sliding together or independent of the control console. So it won't cramp an operator's style.

Variable-speed fan (standard on 160D LC, optional on 120D), noise-reducing muffler, and isochronous high-idle speed help quiet things down.

Ergonomic short-throw pilot levers provide smooth and predictable low-effort control.

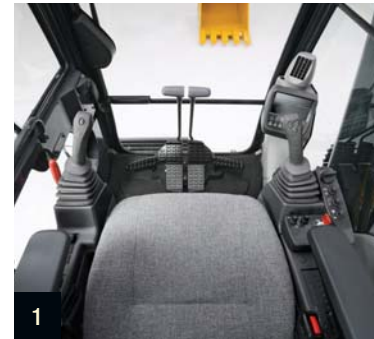
Go from backhoe- to SAE-style controls with just a twist of your wrist. Optional lockable control pattern selector valve comes factory-installed.

No need to leave the seat to match hydraulic flow to your attachment. Changes are push-button easy and done through the monitor.

Convenient 12-volt port powers cell phones and other electronic devices.

Redesigned cab isn't just roomier, it's also noticeably more comfortable. Silicone-filled cab mounts effectively isolate operators from noise and vibration.

1. Forty-seven-percent more glass, narrow front cab posts, large tinted overhead hatch, and numerous mirrors provide virtually unobstructed all-around visibility.
2. No shortage of space in here. There's a place for a cooler, cup holders, and even a hot/cold box that keeps refreshments at just the right temperature.
3. Automatic, high-velocity bi-level climate-control system with automotive-style adjustable louvers helps keep the glass clear and the cab comfortable.
4. Intuitive, multi-language monitor with four-color LCD screen provides a wealth of info and control. Displays operating, diagnostic, and maintenance data with easy-on-the-eyes clarity.



When equipped with cool-on-demand, the optional reversing fan automatically or manually back-blows cooler cores to reduce debris buildup. It's a welcome addition that will increase uptime.

Graphite-iron wet-sleeve cylinder liners, mono-steel pistons, and large-diameter connecting rods ensure long-term engine durability.

Oil-impregnated bushings enhance durability and extend grease intervals to 500 hours (100 hours for the bucket joint). Reinforced resin thrust plates increase boom lube intervals to 500 hours.

Welded bulkheads within the boom resist torsional stress. Boom, arms, and mainframe are so tough, they're warranted for three years or 10,000 hours.

Tungsten-carbide coating creates an extremely wear-resistant surface to protect the all-important bucket-to-arm joint.



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1. With large idlers, rollers, and struted links the sealed and lubricated undercarriage delivers long and reliable performance.



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2. Rigid, reinforced D-channel side frames resist impact, providing maximum cab and component protection.

3. Perforations in the hood and side shields serve as a "first filter," preventing trash entry. Anything that passes through will also clear the cooler cores.




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4. Box-section track frames, thick-plate single-sheet mainframe, and large swing bearing deliver rock-solid durability.





Nothing runs like a Deere, because nothing is built like one.

Unlike some excavators that scream for attention, the 160D LC's hydraulically driven on-demand fan (optional on the 120D) runs only as needed, reducing noise and fuel consumption. The highly efficient system keeps things running cool, even in high-trash environments and high altitudes.

Other traditional John Deere features include 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.

Machine Information Center (MIC) captures and stores vital machine performance and utilization data to help improve uptime, productivity, and profit.

Auto-idle automatically reduces engine speeds when hydraulics aren't in use, making the most of every precious drop of fuel.

Large, easy-to-open doors provide quick access to service items. Lube banks, filters, and checkpoints are grouped for added convenience.

Large fuel tanks and 500- and 5,000-hour engine and hydraulic oil-service intervals enable these excavators to work longer between stops for scheduled service.

Fluid-level sight gauges are conveniently located and can be checked at a glance.



Uncover new ways to keep costs down.

Like all John Deere machines, these excavators are loaded with features that make them hassle-free to service and low-cost to maintain. Large, easy-to-open service doors and easy-access service points make quick work of the daily routine. Remote-mounted vertical oil and fuel filters and

extended engine and hydraulic oil-change intervals minimize maintenance, too. 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 help you manage uptime and costs.

1. Vertical spin-on engine oil and fuel/water filters in the right rear compartment allow ground-level servicing.

2. Easy-to-navigate LCD color monitor tracks up to 14 maintenance intervals and lets an operator check any of 32 machine operating parameters at the touch of a button.

3. Centralized lube banks place difficult-to-lube zerks within easy reach, for faster greasing with less mess.

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

5. Wide-fin spacing lets trash easily pass through cores to resist plugging. Hinged, swing-out coolers on the 160D provide additional access.

6. Remote diagnostic and fluid-sample ports help speed preventative maintenance and troubleshooting.





Specifications

Engine 120D

Manufacturer and Model	John Deere 4045H
Non-Road Emission Standards	EPA Tier 3/EU Stage IIIA
Net Power (ISO9249)	69 kW (93 hp) @ 2,000 rpm
Cylinders	4
Displacement	4.5 L (276 cu. in.)
Aspiration	turbocharged, air-to-air charge air cooler
Off-Level Capacity	100% (45 deg.)

Cooling

Direct-drive, suction-type fan

Powertrain

2-speed propel with automatic shift	
Travel Speed (maximum)	
Low	3.4 km/h (2.1 mph)
High	5.5 km/h (3.4 mph)

Hydraulics

Open center, load sensing; auxiliary hydraulic flow adjustable through monitor	
Main Pumps	2 variable-displacement axial-piston pumps
Maximum Rated Flow	2 x 105 L/m (2 x 27.7 gpm)
Pilot Pump	one gear
Maximum Rated Flow	32.9 L/m (8.7 gpm)
Pressure Setting	3930 kPa (570 psi)
System Operating Pressure	
Implement Circuits	34 336 kPa (4,980 psi)
Travel Circuits	34 336 kPa (4,980 psi)
Swing Circuits	32 336 kPa (4,690 psi)
Controls	pilot levers, short stroke, low effort; hydraulic pilot controls with shutoff lever

Cylinders

Heat-treated, chrome-plated, polished cylinder rods, hardened steel (replaceable bushings) pivot pins			
	<i>Bore</i>	<i>Rod Diameter</i>	<i>Stroke</i>
Boom (2)	105 mm (4.13 in.)	70 mm (2.76 in.)	940 mm (37.0 in.)
Arm (1)	115 mm (4.53 in.)	80 mm (3.15 in.)	1135 mm (44.7 in.)
Bucket (1)	100 mm (3.94 in.)	70 mm (2.76 in.)	874 mm (34.4 in.)

Electrical

Batteries	2 x 12 volt
Reserve Capacity	180 min.
Alternator Rating	80 amp
Work Lights	halogen (2), one mounted on boom and one on frame

Undercarriage

Carrier Rollers (per side)	1
Track Rollers (per side)	7
Shoes (per side)	44
Drawbar Pull	11 216 kg (24,729 lb.)
Track	
Adjustment	hydraulic
Guides	front
Chain	sealed and lubricated

Swing Mechanism

120D

Swing Speed	13.3 rpm
Swing Torque	34 000 Nm (25,077 lb.-ft.)

Ground Pressure

	Without Blade	With Blade
600-mm (24 in.) Triple Semi-Grouser Shoes	36.9 kPa (5.36 psi)	39.8 kPa (5.77 psi)
700-mm (28 in.) Triple Semi-Grouser Shoes	31.9 kPa (4.63 psi)	34.4 kPa (4.98 psi)
500-mm (20 in.) Rubber Crawler Pads	43.6 kPa (6.33 psi)	47.1 kPa (6.83 psi)

Serviceability

Refill Capacities

Fuel Tank	250 L (66 gal.)
Cooling System	20 L (21 qt.)
Engine Oil with Filter	14 L (15 qt.)
Hydraulic Tank	76 L (20 gal.)
Hydraulic System	132.5 L (35 gal.)
Gearbox	
Propel (each)	4 L (4.2 qt.)
Swing	3.2 L (3 qt.)

Operating Weights

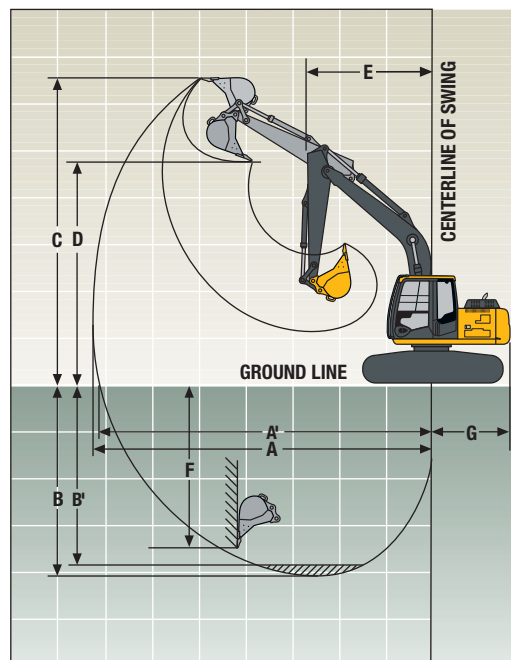
With Full Fuel Tank; 79-kg (175 lb.) Operator; 1067-mm (42 in.), 0.60-m ³ (0.79 cu. yd.), 420-kg (925 lb.) Bucket; 3.01-m (9 ft. 11 in.) Arm; and 2500-kg (5,512 lb.) Counterweight	Without Blade	With Blade
600-mm (24 in.) Triple Semi-Grouser Shoes	12 827 kg (28,278 lb.)	13 826 kg (30,482 lb.)
700-mm (28 in.) Triple Semi-Grouser Shoes	12 926 kg (28,498 lb.)	13 926 kg (30,702 lb.)
600-mm (24 in.) Rubber Crawler Pads	12 627 kg (27,837 lb.)	13 626 kg (30,041 lb.)

Optional Components

Undercarriage	Without Blade	With Blade
600-mm (24 in.) Triple Semi-Grouser Shoes	4304 kg (9,489 lb.)	5087 kg (11,214 lb.)
700-mm (28 in.) Triple Semi-Grouser Shoes	4490 kg (9,899 lb.)	5273 kg (11,625 lb.)
600-mm (24 in.) Rubber Crawler Pads	4112 kg (9,065 lb.)	4895 kg (10,792 lb.)
One-Piece Boom (with arm cylinder)	988 kg (2,178 lb.)	
Arm with Bucket Cylinder and Linkage		
2.52 m (8 ft. 3 in.)	431 kg (950 lb.)	
3.01 m (9 ft. 11 in.)	501 kg (1,105 lb.)	
Boom Lift Cylinders (2) Total Weight	436 kg (961 lb.)	
1067-mm (42 in.), 0.60-m ³ (0.79 cu. yd.) Bucket	592 kg (1,304 lb.)	
Counterweight (standard)	2500 kg (5,512 lb.)	

Operating Dimensions

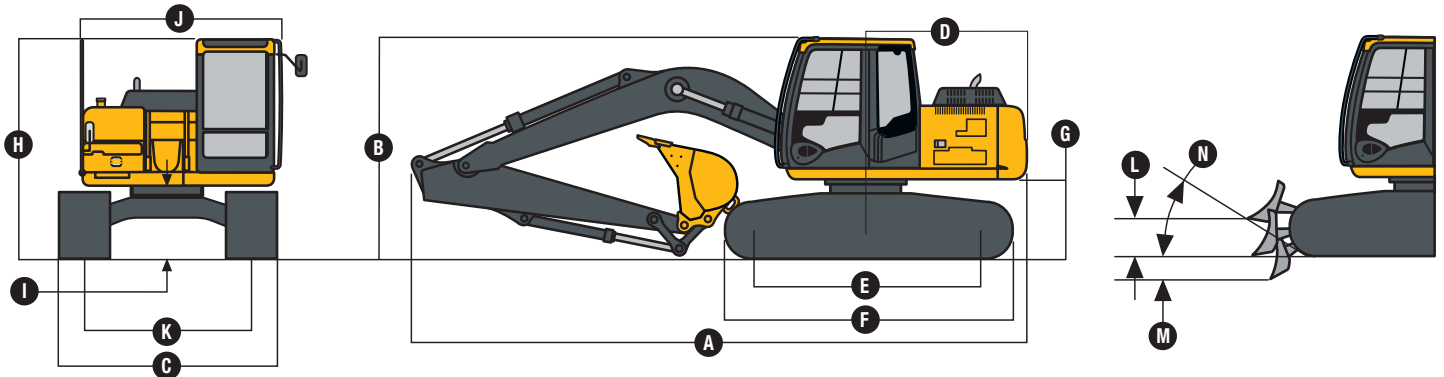
	Arm Length 2.52 m (8 ft. 3 in.)	Arm Length 3.01 m (9 ft. 11 in.)
Arm Force	63.7 kN (14,310 lb.)	57.0 kN (12,823 lb.)
Bucket Digging Force	92.3 kN (20,751 lb.)	92.3 kN (20,751 lb.)
Lifting Capacity Over Front at Ground Level 6.1-m (20 ft.) Reach	2629 kg (5,797 lb.)	2615 kg (5,766 lb.)
A Maximum Reach	8.32 m (27 ft. 4 in.)	8.79 m (28 ft. 10 in.)
A' Maximum Reach at Ground Level	8.20 m (26 ft. 11 in.)	8.67 m (28 ft. 5 in.)
B Maximum Digging Depth	5.57 m (18 ft. 3 in.)	6.06 m (19 ft. 11 in.)
B' Maximum Digging Depth at 2.44-m (8 ft.) Flat Bottom	5.35 m (17 ft. 7 in.)	5.88 m (19 ft. 3 in.)
C Maximum Cutting Height	8.57 m (28 ft. 1 in.)	8.90 m (29 ft. 2 in.)
D Maximum Dumping Height	6.16 m (20 ft. 3 in.)	6.49 m (21 ft. 4 in.)
E Minimum Swing Radius	2.39 m (7 ft. 10 in.)	2.64 m (8 ft. 8 in.)
F Maximum Vertical Wall	5.02 m (16 ft. 6 in.)	5.50 m (18 ft. 1 in.)
G Tail Swing Radius	2.13 m (7 ft.)	2.13 m (7 ft.)



Machine Dimensions

120D

	<i>Shipping Length</i>	<i>Shipping Length</i>
	2.52 m (8 ft. 3 in.)	3.01 m (9 ft. 11 in.)
A Overall Length	7.66 m (25 ft. 2 in.)	7.67 m (25 ft. 2 in.)
B Overall Height	2.68 m (8 ft. 10 in.)	2.68 m (8 ft. 10 in.)
C Overall Width:		
600-mm (24 in.) Triple Semi-Grouser		
Shoes	2.59 m (8 ft. 6 in.)	
700-mm (28 in.) Triple Semi-Grouser		
Shoes	2.69 m (8 ft. 10 in.)	
600-mm (24 in.) Rubber Crawler Pads	2.59 m (8 ft. 6 in.)	
D Rear-End Length/Swing Radius	2.13 m (7 ft.)	
E Distance Between Idler/Sprocket Centerline	2.80 m (9 ft. 2 in.)	
F Undercarriage Length	3.58 m (11 ft. 9 in.)	
G Counterweight Clearance	890 mm (35 in.)	
H Cab Height	2.74 m (9 ft.)	
I Ground Clearance	440 mm (17 in.)	
J Upperstructure Width	2.46 m (8 ft. 1 in.)	
K Gauge Width	1.98 m (6 ft. 6 in.)	
L Blade Lift Height	584 mm (23 in.)	
M Blade Cut Below Grade	508 mm (20 in.)	
N Blade Lift Angle	17 deg.	
Blade Height	483 mm (19 in.)	
Blade Width:		
600-mm (24 in.) Triple Semi-Grouser		
Shoes	2.6 m (8 ft. 6 in.)	
700-mm (28 in.) Triple Semi-Grouser		
Shoes	2.7 m (8 ft. 10 in.)	
600-mm (24 in.) Rubber Crawler Pads	2.6 m (8 ft. 6 in.)	



Lift Capacities

Boldface italic type indicates hydraulic-limited capacities; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 0.38-m³ (0.50 cu. yd.) bucket and standard gauge, and situated on firm, uniform surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87% of hydraulic capacities or 75% of weight needed to tip machine. All capacities are based on SAE J1097.

Load Point Height	1.52 m (5 ft.)		3.05 m (10 ft.)		4.57 m (15 ft.)		6.10 m (20 ft.)		7.62 m (25 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
<i>With 2.52-m (8 ft. 3 in.) arm and 600-mm (24 in.) rubber crawler pads, without blade</i>										
4.57 m (15 ft.)					2578 (5,683)	2578 (5,683)	2689 (5,929)	1884 (4,153)		
3.05 m (10 ft.)					3299 (7,273)	3021 (6,660)	3738 (6,036)	1823 (4,020)		
1.52 m (5 ft.)					4231 (9,327)	2760 (6,085)	2624 (5,785)	1718 (3,787)		
Ground Line					4001 (8,821)	2555 (5,633)	2519 (5,554)	1621 (3,573)		
-1.52 m (-5 ft.)	3054 (6,733)	3054 (6,733)	7361 (16,228)	4772 (10,520)	3907 (8,613)	2470 (5,446)	2465 (5,435)	1570 (3,462)		
-3.05 m (-10 ft.)			7086 (15,621)	4856 (10,706)	3925 (8,654)	2487 (5,483)	2493 (5,497)	1597 (3,521)		
-4.57 m (-15 ft.)					3007 (6,630)	2639 (5,817)				

Lift Capacities (continued)

120D

Boldface italic type indicates hydraulic-limited capacities; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 0.38-m³ (0.50 cu. yd.) bucket and standard gauge, and situated on firm, uniform surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87% of hydraulic capacities or 75% of weight needed to tip machine. All capacities are based on SAE J1097.

Load Point Height	1.52 m (5 ft.)		3.05 m (10 ft.)		4.57 m (15 ft.)		6.10 m (20 ft.)		7.62 m (25 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
<i>With 2.52-m (8 ft. 3 in.) arm and 600-mm (24 in.) rubber crawler pads, blade on ground</i>										
4.57 m (15 ft.)					2578 (5,683)	2578 (5,683)	2689 (5,929)		2095 (4,619)	
3.05 m (10 ft.)					3299 (7,273)	3299 (7,273)		2971 (6,431)	2034 (4,485)	
1.52 m (5 ft.)					4374 (9,644)	3063 (6,753)	3354 (7,395)		1929 (4,252)	
Ground Line			4078 (8,990)	4078 (8,990)	5190 (11,443)	2858 (6,300)	3740 (8,245)		1832 (4,038)	
-1.52 m (-5 ft.)	3054 (6,733)	3054 (6,733)	7361 (16,228)	5308 (11,702)	5381 (11,862)	2773 (6,114)	3837 (8,460)		1782 (3,928)	
-3.05 m (-10 ft.)			7086 (15,621)	5392 (11,887)	4875 (10,748)	2790 (6,151)	3292 (7,258)		1808 (3,986)	
-4.57 m (-15 ft.)					3007 (6,630)	2942 (6,485)				
<i>With 2.52-m (8 ft. 3 in.) arm and 600-mm (24 in.) shoes, without blade</i>										
4.57 m (15 ft.)					2578 (5,683)	2578 (5,683)	2689 (5,929)		1940 (4,276)	
3.05 m (10 ft.)					3299 (7,273)	3100 (6,835)	2805 (6,184)		1879 (4,142)	
1.52 m (5 ft.)					4330 (9,546)	2839 (6,260)	2691 (5,932)		1773 (3,909)	
Ground Line			4078 (8,990)	4078 (8,990)	4100 (9,040)	2634 (5,808)	2586 (5,701)		1676 (3,695)	
-1.52 m (-5 ft.)	3054 (6,733)	3054 (6,733)	7361 (16,228)	4912 (10,830)	4006 (8,832)	2550 (5,622)	2532 (5,582)		1626 (3,584)	
-3.05 m (-10 ft.)			7086 (15,621)	4996 (11,015)	4025 (8,873)	2566 (5,658)	2561 (5,645)		1652 (3,643)	
-4.57 m (-15 ft.)					3007 (6,630)	2718 (5,992)				
<i>With 2.52-m (8 ft. 3 in.) arm and 600-mm (24 in.) shoes, blade on ground</i>										
4.57 m (15 ft.)					2578 (5,683)	2578 (5,683)	2689 (5,929)		2150 (4,741)	
3.05 m (10 ft.)					3299 (7,273)	3299 (7,273)	2917 (6,431)		2090 (4,607)	
1.52 m (5 ft.)					4374 (9,644)	3142 (6,928)	3354 (7,395)		1984 (4,374)	
Ground Line			4078 (8,990)	4078 (8,990)	5190 (11,443)	2937 (6,476)	3740 (8,245)		1887 (4,160)	
-1.52 m (-5 ft.)	3054 (6,733)	3054 (6,733)	7361 (16,228)	5448 (12,011)	5381 (11,862)	2853 (6,289)	3837 (8,460)		1837 (4,050)	
-3.05 m (-10 ft.)			7086 (15,621)	5532 (12,197)	4875 (10,748)	2869 (6,326)	3292 (7,258)		1863 (4,108)	
-4.57 m (-15 ft.)					3007 (6,630)	3007 (6,630)				
<i>With 2.52-m (8 ft. 3 in.) arm and 700-mm (28 in.) shoes, without blade</i>										
4.57 m (15 ft.)					2578 (5,683)	2578 (5,683)	2689 (5,929)		1975 (4,354)	
3.05 m (10 ft.)					3299 (7,273)	3152 (6,948)	2848 (6,279)		1915 (4,221)	
1.52 m (5 ft.)					4374 (9,644)	2891 (6,373)	2734 (6,028)		1809 (3,988)	
Ground Line			4078 (8,990)	4078 (8,990)	4165 (9,182)	2686 (5,921)	2629 (5,797)		1712 (3,774)	
-1.52 m (-5 ft.)	3054 (6,733)	3054 (6,733)	7361 (16,228)	5003 (11,030)	4071 (8,974)	2601 (5,735)	2575 (5,677)		1662 (3,663)	
-3.05 m (-10 ft.)			7086 (15,621)	5087 (11,215)	4089 (9,015)	2618 (5,771)	2604 (5,741)		1711 (3,772)	
-4.57 m (-15 ft.)					3007 (6,630)	2769 (6,105)				
<i>With 2.52-m (8 ft. 3 in.) arm and 700-mm (28 in.) shoes, blade on ground</i>										
4.57 m (15 ft.)					2578 (5,683)	2578 (5,683)	2689 (5,929)		3286 (4,820)	
3.05 m (10 ft.)					3299 (7,273)	3299 (7,273)	2917 (6,431)		2162 (4,686)	
1.52 m (5 ft.)					4374 (9,644)	3194 (7,041)	3354 (7,395)		2020 (4,453)	
Ground Line			4078 (8,990)	4078 (8,990)	5190 (11,443)	2989 (6,589)	3740 (8,245)		1923 (4,239)	
-1.52 m (-5 ft.)	3054 (6,733)	3054 (6,733)	7361 (16,228)	5539 (12,211)	5381 (11,862)	2904 (6,402)	3837 (8,460)		1873 (4,129)	
-3.05 m (-10 ft.)			7086 (15,621)	5623 (12,397)	4875 (10,748)	2921 (6,439)	3292 (7,258)		1899 (4,187)	
-4.57 m (-15 ft.)					3007 (6,630)	3007 (6,630)				
<i>With 3.01-m (9 ft. 11 in.) arm and 600-mm (24 in.) rubber crawler pads, without blade</i>										
4.57 m (15 ft.)							2333 (5,144)		1916 (4,224)	
3.05 m (10 ft.)					2832 (6,244)	2832 (6,244)	2616 (5,767)		1841 (4,058)	1752 (3,863) 1161 (2,560)
1.52 m (5 ft.)					3953 (8,715)	2802 (6,177)	2631 (5,800)		1720 (3,792)	1769 (3,899) 1118 (2,465)
Ground Line			5133 (11,317)	2883 (6,355)	4006 (8,832)	2553 (5,629)	2505 (5,523)		1603 (3,535)	1716 (3,784) 1069 (2,357)
-1.52 m (-5 ft.)	2883 (6,355)	2883 (6,355)	7242 (15,965)	4679 (10,316)	3866 (8,523)	2428 (5,353)	2427 (5,351)		1531 (3,376)	
-3.05 m (-10 ft.)	5663 (12,484)	5663 (12,484)	7591 (16,736)	4728 (10,423)	3850 (8,488)	2414 (5,322)	2422 (5,339)		1526 (3,365)	
-4.57 m (-15 ft.)			5720 (12,610)	4905 (10,813)	3853 (8,495)	2511 (5,536)				

Lift Capacities (continued)

120D

Boldface italic type indicates hydraulic-limited capacities; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 0.38-m³ (0.50 cu. yd.) bucket and standard gauge, and situated on firm, uniform surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87% of hydraulic capacities or 75% of weight needed to tip machine. All capacities are based on SAE J1097.

Load Point Height	1.52 m (5 ft.)		3.05 m (10 ft.)		4.57 m (15 ft.)		6.10 m (20 ft.)		7.62 m (25 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
<i>With 3.01-m (9 ft. 11 in.) arm and 600-mm (24 in.) rubber crawler pads, blade on ground</i>										
4.57 m (15 ft.)							2333 (5,144)	2127 (4,689)		
3.05 m (10 ft.)					2832 (6,244)	2832 (6,244)	2616 (5,767)	2052 (4,523)	1752 (3,863)	1323 (2,917)
1.52 m (5 ft.)					3953 (8,715)	3105 (6,845)	3102 (6,839)	1931 (4,257)	2432 (5,362)	1280 (2,822)
Ground Line			5133 (11,317)	5133 (11,317)	4925 (10,857)	2856 (6,297)	3567 (7,864)	1814 (4,000)	2626 (5,789)	1231 (2,714)
-1.52 m (-5 ft.)	2883 (6,355)	2883 (6,355)	7242 (15,965)	5215 (11,497)	5323 (11,735)	2731 (6,020)	3792 (8,360)	1742 (3,841)		
-3.05 m (-10 ft.)	5663 (12,484)	5663 (12,484)	7591 (16,736)	5263 (11,604)	5063 (11,162)	2717 (5,990)	3551 (7,829)	1737 (3,830)		
-4.57 m (-15 ft.)			5720 (12,610)	5440 (11,994)	3853 (8,495)	2814 (6,204)				

With 3.01-m (9 ft. 11 in.) arm and 600-mm (24 in.) shoes, without blade

4.57 m (15 ft.)							2333 (5,144)	1971 (4,346)		
3.05 m (10 ft.)					2832 (6,244)	2832 (6,244)	2616 (5,767)	1896 (4,180)	1752 (3,863)	1203 (2,653)
1.52 m (5 ft.)					3953 (8,715)	2881 (6,352)	2698 (5,948)	1775 (3,914)	1819 (4,010)	1161 (2,559)
Ground Line			5133 (11,317)	4936 (10,883)	4106 (9,052)	2633 (5,805)	2572 (5,670)	1659 (3,657)	1767 (3,895)	1112 (2,451)
-1.52 m (-5 ft.)	2883 (6,355)	2883 (6,355)	7242 (15,965)	4820 (10,626)	3965 (8,742)	2507 (5,528)	2494 (5,499)	1587 (3,498)		
-3.05 m (-10 ft.)	5663 (12,484)	5663 (12,484)	7591 (16,736)	4868 (10,733)	3950 (8,708)	2493 (5,497)	2489 (5,487)	1582 (3,487)		
-4.57 m (-15 ft.)			5720 (12,610)	5045 (11,122)	3853 (8,495)	2590 (5,711)				

With 3.01-m (9 ft. 11 in.) arm and 600-mm (24 in.) shoes, blade on ground

4.57 m (15 ft.)							2333 (5,144)	2182 (4,811)		
3.05 m (10 ft.)					2832 (6,244)	2832 (6,244)	2616 (5,767)	2107 (4,645)	1752 (3,863)	1366 (3,011)
1.52 m (5 ft.)					3953 (8,715)	3184 (7,020)	3102 (6,839)	1986 (4,379)	2432 (5,362)	1323 (2,916)
Ground Line			5133 (11,317)	5133 (11,317)	4925 (10,857)	2936 (6,472)	3567 (7,864)	1870 (4,122)	2626 (5,789)	1274 (2,808)
-1.52 m (-5 ft.)	2883 (6,355)	2883 (6,355)	7242 (15,965)	5356 (11,807)	5323 (11,735)	2810 (6,195)	3792 (8,360)	1798 (3,963)		
-3.05 m (-10 ft.)	5663 (12,484)	5663 (12,484)	7591 (16,736)	5404 (11,914)	5063 (11,162)	2796 (6,165)	3551 (7,829)	1793 (3,953)		
-4.57 m (-15 ft.)			5720 (12,610)	5581 (12,304)	3853 (8,495)	2893 (6,379)				

With 3.01-m (9 ft. 11 in.) arm and 700-mm (28 in.) shoes, without blade

4.57 m (15 ft.)							2333 (5,144)	2007 (4,425)		
3.05 m (10 ft.)					2832 (6,244)	2832 (6,244)	2616 (5,767)	1932 (4,259)	1752 (3,863)	1231 (2,714)
1.52 m (5 ft.)					3953 (8,715)	2932 (6,465)	2741 (6,043)	1811 (3,993)	1852 (4,082)	1188 (2,619)
Ground Line			5133 (11,317)	5027 (11,083)	4170 (9,193)	2684 (5,918)	2615 (5,766)	1695 (3,736)	1799 (3,967)	1139 (2,511)
-1.52 m (-5 ft.)	2883 (6,355)	2883 (6,355)	7242 (15,965)	4911 (10,826)	4030 (8,884)	2559 (5,641)	2537 (5,594)	1623 (3,577)		
-3.05 m (-10 ft.)	5663 (12,484)	5663 (12,484)	7591 (16,736)	4959 (10,933)	4014 (8,850)	2545 (5,610)	2532 (5,582)	1618 (3,566)		
-4.57 m (-15 ft.)			5720 (12,610)	5136 (11,322)	3853 (8,495)	2642 (5,825)				

With 3.01-m (9 ft. 11 in.) arm and 700-mm (28 in.) shoes, blade on ground

4.57 m (15 ft.)							2333 (5,144)	2218 (4,890)		
3.05 m (10 ft.)					2832 (6,244)	2832 (6,244)	2616 (5,767)	2143 (4,724)	1752 (3,863)	1393 (3,071)
1.52 m (5 ft.)					3953 (8,715)	3235 (7,133)	3102 (6,839)	2022 (4,458)	2432 (5,362)	1350 (2,976)
Ground Line			5133 (11,317)	5133 (11,317)	4925 (10,857)	2987 (6,585)	3567 (7,864)	1906 (4,201)	2626 (5,789)	1301 (2,868)
-1.52 m (-5 ft.)	2883 (6,355)	2883 (6,355)	7242 (15,965)	5446 (12,007)	5323 (11,735)	2862 (6,309)	3792 (8,360)	1833 (4,042)		
-3.05 m (-10 ft.)	5663 (12,484)	5663 (12,484)	7591 (16,736)	5495 (12,114)	5063 (11,162)	2848 (6,278)	3551 (7,829)	1828 (4,031)		
-4.57 m (-15 ft.)			5720 (12,610)	5672 (12,504)	3853 (8,495)	2945 (6,492)				

Buckets

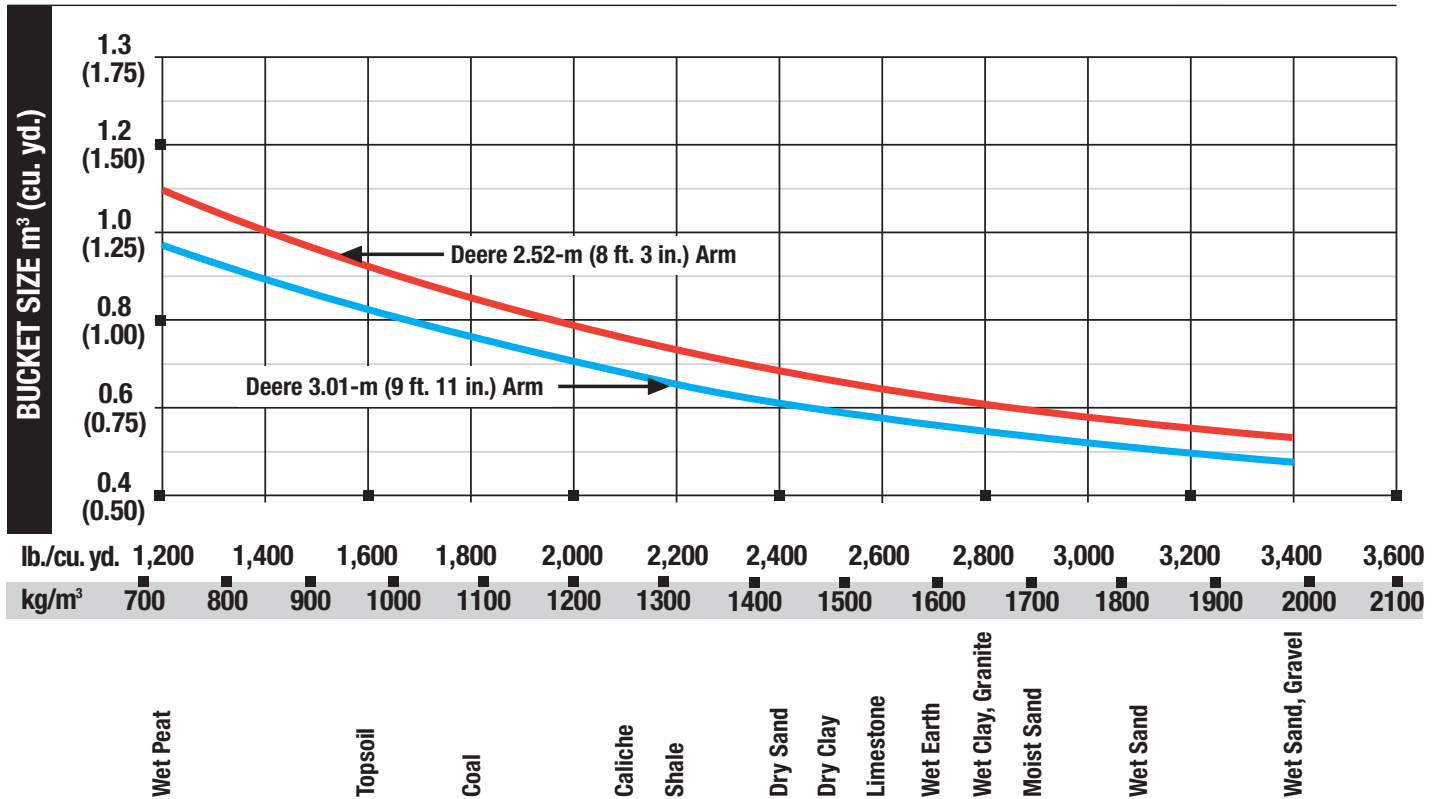
120D

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Tooth selection includes the John Deere Fanggs®, Standard, Tiger, Twin Tiger, Abrasion panel, or Flare tooth. Replaceable cutting edges are available through John Deere parts. Optional side cutters add 150 mm (6 in.) to bucket widths. Capacities are SAE heaped ratings.

Type Bucket	Bucket Width		Bucket Capacity*		Weight		Bucket Dig Force		Arm Dig Force 2.52 m (8 ft. 3 in.)		Arm Dig Force 3.01 m (9 ft. 11 in.)		Bucket Tip Radius		No. Teeth
	mm	in.	m ³	cu. yd.	kg	lb.	kN	lb.	kN	lb.	kN	lb.	mm	in.	
General-Purpose Plate Lip	610	24	0.38	0.50	408	899	92.3	20,751	63.7	14,310	57.0	12,823	1328	52.27	4
	762	30	0.50	0.66	468	1,030	92.3	20,751	63.7	14,310	57.0	12,823	1328	52.27	4
	914	36	0.63	0.83	533	1,173	92.3	20,751	63.7	14,310	57.0	12,823	1328	52.27	5
	1065	42	0.77	1.01	592	1,304	92.3	20,751	63.7	14,310	57.0	12,823	1328	52.27	5
Heavy-Duty Plate Lip	610	24	0.37	0.48	460	1,014	92.3	20,751	63.7	14,310	57.0	12,823	1328	52.27	4
	760	30	0.50	0.65	522	1,150	92.3	20,751	63.7	14,310	57.0	12,823	1328	52.27	4
	915	36	0.62	0.81	589	1,297	92.3	20,751	63.7	14,310	57.0	12,823	1328	52.27	5
	1067	42	0.76	0.99	631	1,390	92.3	20,751	63.7	14,310	57.0	12,823	1328	52.27	5
Ditching	1500	60	0.63	0.83	457	1,007	92.3	20,751	71.2	16,002	62.9	14,149	921	36.25	0

*All capacities are SAE heaped ratings and with side cutters.

Bucket Selection Guide*



*Contact your John Deere dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Does not include optional equipment such as thumbs or couplers. Larger buckets may be possible when using light materials, for flat and level operations, for less compacted materials, and volume loading applications such as mass excavation applications in ideal conditions. Smaller buckets are recommended for adverse conditions such as off-level applications, rocks, and uneven surfaces. Bucket capacity indicated is SAE heaped.

Specifications



Engine 160D LC

Manufacturer and Model	John Deere 4045H
Non-Road Emission Standards	EPA Tier 3/EU Stage IIIA
Net Power (ISO9249)	90 kW (121 hp) @ 2,200 rpm
Cylinders	4
Displacement	4.5 L (276 cu. in.)
Aspiration	turbocharged, air-to-air charge air cooler
Off-Level Capacity	100% (45 deg.)

Cooling

Cool-on-demand hydraulic-driven, suction-type fan with remote-mounted drive

Powertrain

2-speed propel with automatic shift

Travel Speed (maximum)	
Low	3.4 km/h (2.1 mph)
High	5.3 km/h (3.3 mph)

Hydraulics

Open center, load sensing; auxiliary hydraulic flow adjustable through monitor

Main Pumps	2 variable-displacement axial-piston pumps
Maximum Rated Flow	2 x 191 L/min. (2 x 50.4 gpm)
Pilot Pump	one gear
Maximum Rated Flow	33.6 L/min. (8.87 gpm)
Pressure Setting	3930 kPa (570 psi)
System Operating Pressure	
Implement Circuits	34 336 kPa (4,980 psi)
Travel Circuits	34 336 kPa (4,980 psi)
Swing Circuits	29 300 kPa (4,250 psi)
Controls	pilot levers, short stroke, low effort; hydraulic pilot controls with shutoff lever

Cylinders

Heat-treated, chrome-plated, polished cylinder rods; hardened-steel (replaceable bushings) pivot pins

	<i>Bore</i>	<i>Rod Diameter</i>	<i>Stroke</i>
Boom (2)	110 mm (4.33 in.)	80 mm (3.15 in.)	1110 mm (43.70 in.)
Arm (1)	120 mm (4.72 in.)	90 mm (3.54 in.)	1365 mm (53.74 in.)
Bucket (1)	105 mm (4.13 in.)	75 mm (2.95 in.)	935 mm (36.81 in.)

Electrical

Batteries	2 x 12 volt
Reserve Capacity	180 min.
Alternator Rating	80 amp
Work Lights	halogen (2), one mounted on boom and one on frame

Undercarriage

Carrier Rollers (per side)	2
Track Rollers (per side)	7
Shoes (per side)	43
Drawbar Pull	17 250 kg (38,030 lb.)
Track	
Adjustment	hydraulic
Guides	front and center
Chain	sealed and lubricated

Swing Mechanism

160D LC

Swing Speed	13.3 rpm
Swing Torque	44 000 Nm (32,353 lb.-ft.)

Ground Pressure

Triple Semi-Grouser Shoes	
600 mm (24 in.)	42.5 kPa (6.16 psi)
700 mm (28 in.)	37.2 kPa (5.40 psi)

Serviceability

Refill Capacities

Fuel Tank	320.0 L (85 gal.)
Cooling System	22.0 L (23 qt.)
Engine Oil with Filter	15.0 L (16 qt.)
Hydraulic Tank	125.0 L (33 gal.)
Hydraulic System	196.8 L (52.0 gal.)
Gearbox	
Propel (each)	4.7 L (5.0 qt.)
Swing	5.7 L (6.0 qt.)

Operating Weights

With Full Fuel Tank; 79-kg (175 lb.) Operator;
914-mm (36 in.), 0.62-m³ (0.81 cu. yd.),
623-kg (1,373 lb.) Heavy-Duty Bucket;
3.10-m (10 ft. 2 in.) Arm; 3300-kg (7,275 lb.)
Counterweight; 3.92-m (12 ft. 10 in.)
Undercarriage Length; and Triple Semi-
Grouser Shoes

600 mm (24 in.)	17 937 kg (39,508 lb.)
700 mm (28 in.)	18 151 kg (39,980 lb.)

Optional Components

Undercarriage with Triple Semi-Grouser Shoes

600 mm (24 in.)	6316 kg (13,911 lb.)
700 mm (28 in.)	6530 kg (14,383 lb.)

One-Piece Boom (with arm cylinder)

1300 kg (2,864 lb.)

Arm with Bucket Cylinder and Linkage

2.60 m (8 ft. 6 in.)	788 kg (1,735 lb.)
3.10 m (10 ft. 2 in.)	874 kg (1,925 lb.)

Boom Lift Cylinders (2) Total Weight

306 kg (675 lb.)

914-mm (36 in.), 0.62-m³ (0.81 cu. yd.) Heavy-
Duty Bucket

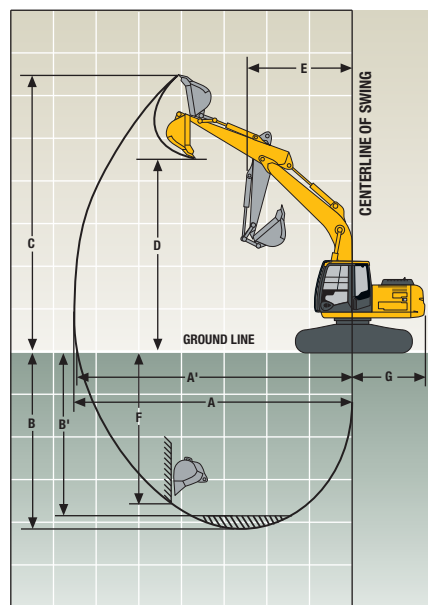
623 kg (1,373 lb.)

Counterweight (standard)

3300 kg (7,275 lb.)

Operating Dimensions

	<i>Arm Length</i> 2.60 m (8 ft. 6 in.)	<i>Arm Length</i> 3.10 m (10 ft. 2 in.)
Arm Force	86.1 kN (19,352 lb.)	76.7 kN (17,243 lb.)
Bucket Digging Force	101.0 kN (22,697 lb.)	101.0 kN (22,697 lb.)
Lifting Capacity Over Front at Ground Level		
6.1-m (20 ft.) Reach	4134 kg (9,105 lb.)	4129 kg (9,094 lb.)
A Maximum Reach	8.87 m (29 ft. 1 in.)	9.33 m (30 ft. 7 in.)
A' Maximum Reach at Ground Level	8.70 m (28 ft. 7 in.)	9.16 m (30 ft. 1 in.)
B Maximum Digging Depth	5.98 m (19 ft. 7 in.)	6.49 m (21 ft. 4 in.)
B' Maximum Digging Depth at 2.44-m (8 ft.) Flat Bottom	5.74 m (18 ft. 10 in.)	6.27 m (20 ft. 7 in.)
C Maximum Cutting Height	8.88 m (29 ft. 2 in.)	9.13 m (29 ft. 11 in.)
D Maximum Dumping Height	6.17 m (20 ft. 3 in.)	6.40 m (21 ft. 0 in.)
E Minimum Swing Radius	2.91 m (9 ft. 7 in.)	2.92 m (9 ft. 7 in.)
F Maximum Vertical Wall	5.16 m (16 ft. 11 in.)	5.69 m (18 ft. 8 in.)
G Tail Swing Radius	2.49 m (8 ft. 2 in.)	2.49 m (8 ft. 2 in.)



Machine Dimensions

160D LC

Arm Length
2.60 m (8 ft. 6 in.)

Arm Length
3.01 m (10 ft. 2 in.)

A Overall Length 8.55 m (28 ft. 1 in.)

8.58 m (28 ft. 2 in.)

B Overall Height 2.87 m (9 ft. 5 in.)

3.11 m (10 ft. 2 in.)

C Overall Width with Triple Semi-Grouser Shoes:

600 mm (24 in.) 2.60 m (8 ft. 6 in.)

700 mm (28 in.) 2.70 m (8 ft. 10 in.)

D Rear-End Length/Swing Radius 2.49 m (8 ft. 2 in.)

E Distance Between Idler/Sprocket Centerline 3.10 m (10 ft. 2 in.)

F Undercarriage Length 3.92 m (12 ft. 10 in.)

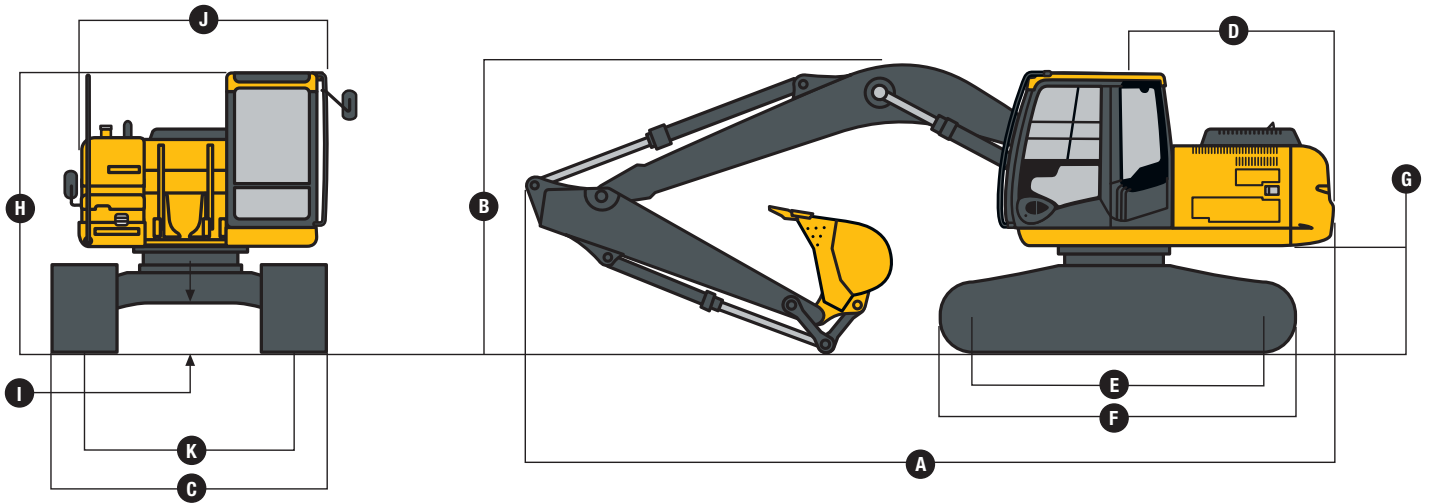
G Counterweight Clearance 1001 mm (3 ft. 3 in.)

H Cab Height 2.95 m (9 ft. 8 in.)

I Ground Clearance 470 mm (19 in.)

J Upperstructure Width 2.48 m (8 ft. 2 in.)

K Gauge Width 1.99 m (6 ft. 6 in.)



Lift Charts

160D LC

Boldface italic type indicates hydraulic-limited capacities; lightface type indicates stability-limited capacities, in kg (lb.). Ratings are at bucket lift hook, using standard counterweight, situated on firm, level, uniform supporting surface. Figures do not exceed 87 percent of hydraulic capacity or 75 percent of weight needed to tip machine.

Load Point Height	1.52 m (5 ft.)		3.05 m (10 ft.)		4.57 m (15 ft.)		6.10 m (20 ft.)		7.62 m (25 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
<i>With 2.60-m (8 ft. 6 in.) arm, 0.60-m³ (0.78 cu. yd.) bucket, and 600-mm (24 in.) triple semi-grouser shoes</i>										
6.10 m (20 ft.)							2481 (5,470)	2481 (5,470)		
4.57 m (15 ft.)							2979 (6,568)	2908 (6,411)		
3.05 m (10 ft.)					4203 (9,265)	4203 (9,265)	3485 (7,684)	2770 (6,107)	2632 (5,803)	1847 (4,073)
1.52 m (5 ft.)					5680 (12,523)	4046 (8,920)	4155 (9,160)	2600 (5,733)	2922 (6,443)	1779 (3,922)
Ground Line					6412 (14,137)	3805 (8,388)	4064 (8,959)	2467 (5,438)	2858 (6,300)	1719 (3,789)
-1.52 m (-5 ft.)			6241 (13,758)	6241 (13,758)	6327 (13,949)	3731 (8,226)	3996 (8,810)	2405 (5,302)		
-3.05 m (-10 ft.)	8165 (18,000)	8165 (18,000)	7601 (16,758)	7333 (16,167)	6374 (14,052)	3772 (8,315)	4026 (8,875)	2432 (5,361)		
-4.57 m (-15 ft.)			7008 (15,450)	7008 (15,450)	4910 (10,825)	3772 (8,315)				

<i>With 2.60-m (8 ft. 6 in.) arm, 0.60-m³ (0.78 cu. yd.) bucket, and 700-mm (28 in.) triple semi-grouser shoes</i>										
6.10 m (20 ft.)							2481 (5,470)	2481 (5,470)		
4.57 m (15 ft.)							2979 (6,568)	2952 (6,507)		
3.05 m (10 ft.)					4203 (9,265)	4203 (9,265)	3485 (7,684)	2813 (6,202)	2632 (5,803)	1881 (4,146)
1.52 m (5 ft.)					5680 (12,523)	4108 (9,057)	4155 (9,160)	2644 (5,829)	2972 (6,552)	1812 (3,995)
Ground Line					6512 (14,356)	3867 (8,525)	4130 (9,105)	2510 (5,534)	2908 (6,410)	1752 (3,862)
-1.52 m (-5 ft.)			6241 (13,758)	6241 (13,758)	6427 (14,169)	3793 (8,363)	4062 (8,956)	2448 (5,398)		
-3.05 m (-10 ft.)	8165 (18,000)	8165 (18,000)	7619 (16,798)	7444 (16,411)	6429 (14,174)	3834 (8,452)	4092 (9,021)	2475 (5,457)		
-4.57 m (-15 ft.)			7008 (15,450)	7008 (15,450)	4910 (10,825)	4006 (8,832)				

<i>With 3.10-m (10 ft. 2 in.) arm, 0.40-m³ (0.52 cu. yd.) bucket, and 600-mm (24 in.) triple semi-grouser shoes</i>										
6.10 m (20 ft.)							2433 (5,363)	2433 (5,363)		
4.57 m (15 ft.)							2585 (5,699)	2585 (5,699)	1957 (4,315)	1913 (4,217)
3.05 m (10 ft.)					3611 (7,960)	3611 (7,960)	3127 (6,893)	2803 (6,180)	2800 (6,172)	1860 (4,100)
1.52 m (5 ft.)					5158 (11,372)	4118 (9,078)	3849 (8,485)	2616 (5,768)	2922 (6,441)	1774 (3,912)
Ground Line			4433 (9,772)	4433 (9,772)	6333 (13,961)	3815 (8,410)	4059 (8,948)	2458 (5,418)	2837 (6,254)	1696 (3,739)
-1.52 m (-5 ft.)	3517 (7,754)	3517 (7,754)	6386 (14,078)	6386 (14,078)	6287 (13,860)	3689 (8,133)	3961 (8,732)	2369 (5,222)	2793 (6,158)	1655 (3,649)
-3.05 m (-10 ft.)	6774 (14,934)	6774 (14,934)	8179 (18,032)	7183 (15,836)	6291 (13,869)	3693 (8,141)	3955 (8,719)	2363 (5,210)		
-4.57 m (-15 ft.)			8019 (17,678)	7413 (16,342)	5560 (12,257)	3814 (8,409)				

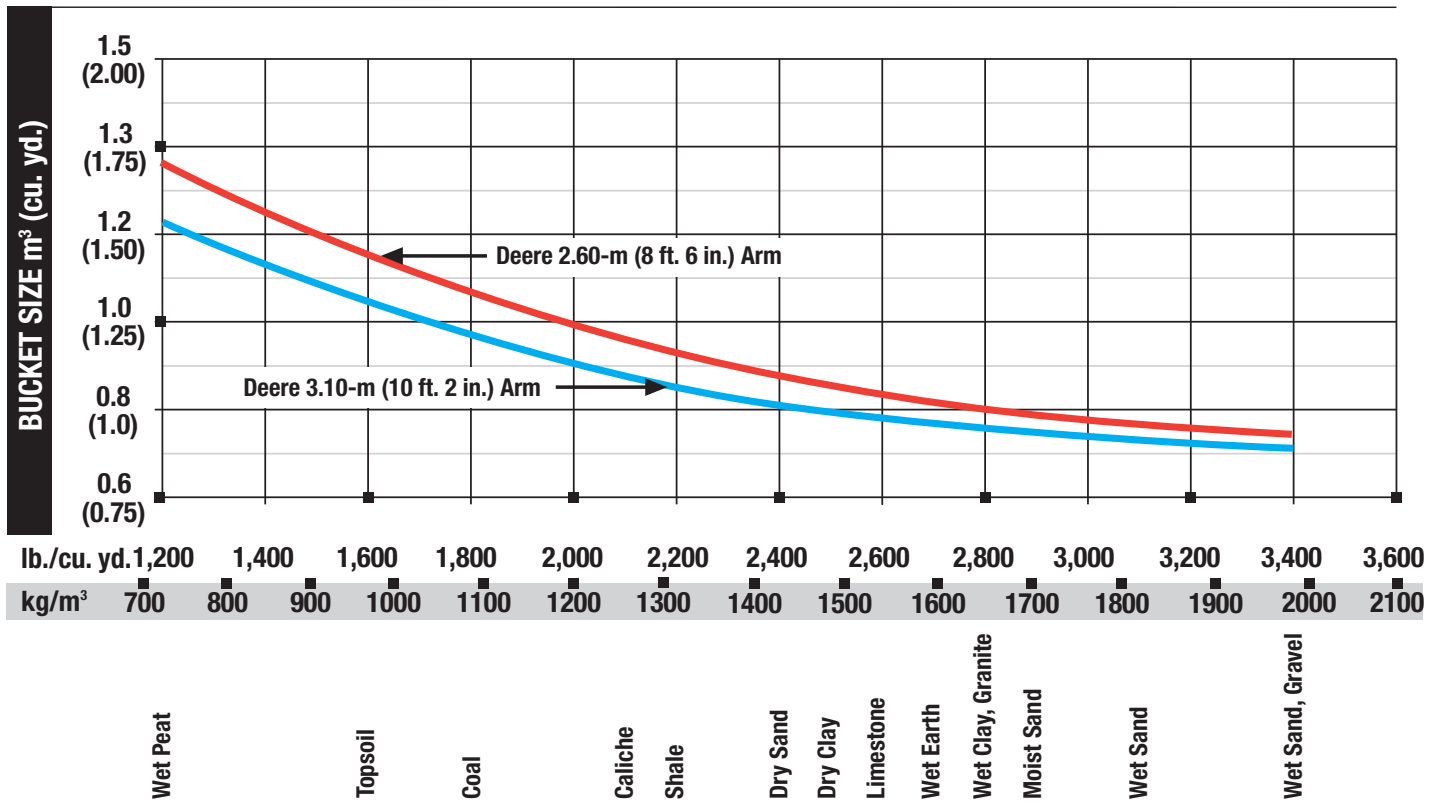
<i>With 3.10-m (10 ft. 2 in.) arm, 0.40-m³ (0.52 cu. yd.) bucket, and 700-mm (28 in.) triple semi-grouser shoes</i>										
6.10 m (20 ft.)							2433 (5,363)	2433 (5,363)		
4.57 m (15 ft.)							2585 (5,699)	2585 (5,699)	1957 (4,315)	1946 (4,290)
3.05 m (10 ft.)					3611 (7,960)	3611 (7,960)	3127 (6,893)	2847 (6,276)	2800 (6,172)	1893 (4,174)
1.52 m (5 ft.)					5158 (11,372)	4180 (9,216)	3849 (8,485)	2660 (5,864)	2971 (6,550)	1808 (3,985)
Ground Line			4433 (9,772)	4433 (9,772)	5158 (11,372)	3877 (8,547)	4125 (9,094)	2501 (5,513)	2887 (6,364)	1729 (3,812)
-1.52 m (-5 ft.)	3517 (7,754)	3517 (7,754)	6386 (14,078)	6386 (14,078)	6333 (13,961)	3752 (8,271)	4027 (8,878)	2412 (5,317)	2843 (6,268)	1689 (3,723)
-3.05 m (-10 ft.)	6774 (14,934)	6774 (14,934)	8179 (18,032)	7294 (16,080)	6386 (14,079)	3755 (8,279)	4021 (8,865)	2406 (5,305)		
-4.57 m (-15 ft.)			8019 (17,678)	7523 (16,586)	5560 (12,257)	3877 (8,547)				

Buckets

160D LC

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Tooth selection includes the John Deere Fanggs®, Standard, Tiger, Twin Tiger, Abrasion panel, or Flare tooth. Replaceable cutting edges are available through John Deere parts. Optional side cutters add 150 mm (6 in.) to bucket widths. Capacities are SAE heaped ratings.

Type Bucket	Bucket Width		Bucket Capacity		Weight		Bucket Dig Force		Arm Dig Force 2.60 m (8 ft. 6 in.)		Arm Dig Force 3.10 m (10 ft. 2 in.)		Bucket Tip Radius		No. Teeth
	mm	in.	m ³	cu. yd.	kg	lb.	kN	lb.	kN	lb.	kN	lb.	mm	in.	
General-Purpose High Capacity	610	24	0.41	0.54	491	1,081	93.1	20,920	83.6	18,804	74.8	16,808	1463	57.61	4
	760	30	0.55	0.72	569	1,253	93.1	20,920	83.6	18,804	74.8	16,808	1463	57.61	4
	915	36	0.70	0.91	655	1,443	93.1	20,920	83.6	18,804	74.8	16,808	1463	57.61	5
	1065	42	0.85	1.11	733	1,615	93.1	20,920	83.6	18,804	74.8	16,808	1463	57.61	5
Heavy Duty	610	24	0.37	0.48	493	1,086	101.0	22,697	86.1	19,352	76.7	17,243	1349	53.10	4
	760	30	0.50	0.65	554	1,221	101.0	22,697	86.1	19,352	76.7	17,243	1349	53.10	4
	915	36	0.62	0.81	623	1,373	101.0	22,697	86.1	19,352	76.7	17,243	1349	53.10	5
	1065	42	0.76	0.99	685	1,508	101.0	22,697	86.1	19,352	76.7	17,243	1349	53.10	5
Ditching	1524	60	0.63	0.83	484	1,066	145.6	32,741	96.2	21,630	84.6	19,020	935	36.81	0



*Contact your John Deere dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Does not include optional equipment such as thumbs or couplers. Larger buckets may be possible when using light materials, for flat and level operations, less compacted materials, and volume loading applications such as mass excavation applications in ideal conditions. Smaller buckets are recommended for adverse conditions such as off-level applications, rocks, and uneven surfaces. Bucket capacity indicated is SAE heaped.

120D / 160D LC EXCAVATORS

Key: ● Standard equipment ▲ Optional or special equipment

See your John Deere dealer for further information.

120D	160D	Engine
●	●	Meets EPA Tier 3/EU Stage IIIA emissions
●	●	Auto-idle system
●	●	Automatic belt tension device
●	●	Batteries (2 – 12 volt), 180-min. reserve capacity
●	●	Coolant recovery tank
●	●	Dual-element dry-type air filter
●	●	Electronic engine control
●	●	Enclosed fan guard (conforms to SAE J1308)
●	●	Engine coolant to -37°C (-34°F)
●	●	Fuel filter with water separator
●	●	Full-flow oil filter
●	●	Turbocharger with charge air cooler
●	●	Muffler, under hood, with vertical curved end exhaust stack
●	●	Direct-drive, suction-type fan
▲	●	Cool-on-demand hydraulic-driven fan
●	●	500-hour engine oil-change interval
●	●	100% (45 deg.) off-level capability
●	●	Engine-oil-sampling valve
▲	▲	Hydraulic fan reverser
▲	▲	Engine coolant heater
Hydraulic System		
●	●	Reduced-drift valve for boom down, arm in
●	●	Auxiliary hydraulic valve section
●	●	Spring-applied, hydraulically released automatic swing brake
●	●	Auxiliary hydraulic-flow adjustments through monitor
●	●	Auto power lift
●	●	5,000-hour hydraulic oil-change interval
●	●	Hydraulic-oil-sampling valve
▲	▲	Auxiliary hydraulic lines
▲	▲	Auxiliary pilot and electric controls
▲	▲	Hydraulic filter restriction indicator kit
▲	▲	Load-lowering control device
▲	▲	Single-pedal propel control
▲	▲	Control pattern-change valve
Undercarriage		
●	●	Planetary drive with axial piston motors
●	●	Propel motor shields
●	●	Spring-applied, hydraulically released automatic propel brake
●	●	Track guides, front idler
●	●	Track guides, front idler and center
●	●	2-speed propel with automatic shift
●	●	Upper carrier roller (1)
●	●	Upper carrier rollers (2)
●	●	Sealed and lubricated track chain

120D	160D	Undercarriage (continued)
▲	▲	Triple semi-grouser shoes, 600 mm (24 in.)
▲	▲	Triple semi-grouser shoes, 700 mm (28 in.)
▲	▲	Rubber crawler pads, 600 mm (24 in.)
▲	▲	Undercarriage with blade
Upperstructure		
●	●	Right- and left-hand mirrors
●	●	Vandal locks with ignition key: Cab door / Fuel cap / Service doors / Toolbox
●	●	Debris-screening side panel
●	●	Remote-mounted engine oil and fuel filters
Front Attachments		
●	●	Centralized lubrication system
●	●	Dirt seals on all bucket pins
●	●	Less boom and arm
●	●	Oil-impregnated bushings
●	●	Reinforced resin thrust plates
●	●	Tungsten carbide thermal coating on arm-to-bucket joint
▲	▲	Arm, 2.52 m (8 ft. 3 in.)
▲	▲	Arm, 2.60 m (8 ft. 6 in.)
▲	▲	Arm, 3.01 m (9 ft. 11 in.)
▲	▲	Arm, 3.10 m (10 ft. 2 in.)
▲	▲	Attachment quick-couplers
▲	▲	Boom cylinders with plumbing to mainframe for less boom and arm
▲	▲	Buckets: Ditching / Heavy duty / Heavy-duty high capacity / Side cutters and teeth
▲	▲	Material clamps
Operator's Station		
●	●	Adjustable independent control positions (levers-to-seat, seat-to-pedals)
●	●	AM/FM radio
●	●	Auto climate control/air conditioner, 5.9 kW (20,000 Btu/hr.), with heater and pressurizer
●	●	Built-in operator's manual storage compartment and manual
●	●	Cell-phone power outlet, 12 volt, 60 watt, 5 amp
●	●	Coat hook
●	●	Deluxe suspension cloth seat with 100-mm (4 in.) adjustable armrests
●	●	Floor mat
●	●	Front windshield wiper with intermittent speeds
●	●	Gauges (illuminated): Engine coolant / Fuel
●	●	Horn, electric
●	●	Hour meter, electric
●	●	Hydraulic shutoff lever, all controls
●	●	Hydraulic warm-up control

120D	160D	Operator's Station (continued)
●	●	Interior light
●	●	Large cup holder
●	●	Machine Information Center (MIC)
●	●	Mode selectors (illuminated): Power modes – 3 / Travel modes – 2 with automatic shift / Work mode – one
●	●	Multifunction, color LCD monitor with: Diagnostic capability / Multiple-language capabilities / Maintenance tracking / Clock / System monitoring with alarm features: Auto-idle indicator, 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, wiper-mode indicator, work-lights-on indicator, and work-mode indicator
▲	▲	Monitor system with alarm features: Hydraulic oil filter restriction indicator light
●	●	Motion alarm with cancel switch (conforms to SAE J994)
●	●	Power boost switch on right console lever
●	●	Auxiliary hydraulic control switches in right console 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
●	●	Hot/cold beverage compartment
▲	▲	Air-suspension heated seat
▲	▲	24- to 12-volt D.C. radio converters, 10 amp
▲	▲	Circulation fan
▲	▲	Protection screens for cab front, rear, and side
▲	▲	Window vandal protection covers
Electrical		
●	●	80-amp alternator
●	●	Blade-type multi-fused circuits
●	●	Positive terminal battery covers
▲	▲	Cab extension wiring harness
▲	▲	JDLINK™ wireless communication system (available in specific countries; see your dealer for details)
Lights		
●	●	Work lights: Halogen / One mounted on boom / One mounted on frame

CONTROL OWNING AND OPERATING COSTS

Customer Personal Service (CPS) is part of our proactive, fix-before-fail strategy on machine maintenance that will help control costs, increase profits, and reduce stress. Included in this comprehensive lineup of ongoing programs and services are:

Customer Support Advisors (CSAs) lend a *personal* touch to Customer Personal Service (CPS). Certified CSAs have the knowledge and skills for helping make important decisions on machine maintenance and repair. Their mission is to help you implement a plan that's right for *your* business and take the burden of machine maintenance off your shoulders.

Fluid analysis program tells you what's going on inside *all* of your machine's major components so you'll know if there's a problem *before* you see a decline in performance. Fluid analysis is included in most extended coverage and preventive-maintenance agreements.

Component life-cycle data gives you vital information on the projected life span of components and lets you make informed decisions on machine maintenance by telling you approximately how many hours of use you can expect from an engine, transmission, or

hydraulic pump. This information can be used to preempt catastrophic downtime by servicing major components at about 80 percent of their life cycle.

Preventive Maintenance (PM) agreements give you a fixed cost for maintaining a machine for a given period of time. They also help you avoid downtime by ensuring that critical maintenance work gets done right and on schedule. On-site preventive maintenance service performed where and when you need it helps protect you from the expense of catastrophic failures and lets you avoid waste-disposal hassles.

Extended coverage gives you a fixed cost for machine repairs for a given period of time so you can effectively manage costs. Whether you work in a severe-service setting or just want to spread the risk of doing business, this is a great way to custom-fit coverage for your operation. And an extended coverage contract also travels well because it's backed by John Deere and is honored by *all* Deere construction dealers.



JOHN DEERE

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions per ISO9249. No derating is required up to 3050-m (10,000 ft.) altitude.

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on units with 700-mm (28 in.) triple semi-grouser shoes, full fuel tanks, and 79-kg (175 lb.) operators; a 120D unit with 1067-mm (42 in.), 0.60-m³ (0.79 cu. yd.), 420-kg (925 lb.) bucket, 3.01-m (9 ft. 11 in.) arm, and 2500-kg (5,512 lb.) counterweight; and a 160D LC unit with 914-mm (36 in.), 0.62-m³ (0.81 cu. yd.), 623-kg (1,373 lb.) heavy-duty bucket, 3.10-m (10 ft. 2 in.) arm, and 3300-kg (7,275 lb.) counterweight.

