75G/85G EXCAVATORS

42.4 kW (56.9 hp)





Neither too big nor too small, these right-size excavators are the perfect solution for a wide variety of tasks. Their reduced-tail-swing configurations provide extra flexibility, enabling them to maneuver nimbly and work efficiently in and around congested conditions. What's more, the 85G comes equipped with the extra advantage of an independent-swing boom that lets it work even closer to curbs, parallel to structures, or in the midst of traffic. Inside their spacious, comfortable cabs, easy-to-navigate enhanced LCD monitors let operators easily dial-in a wealth of machine info and functionality. Of course, these two meet EPA Final Tier 4 (FT4)/EU Stage IV regulations, so they're a perfect fit for your equipment fleet for years to come.

Key specifications	75G	85G
Net rated power	42.4 kW (56.9 hp)	42.4 kW (56.9 hp)
Operating weight	8143 kg (17,952 lb.)	8729 kg (19,244 lb.)
Maximum digging depth	4.61 m (15 ft. 1 in.)	4.51 m (14 ft. 10 in.)
Arm digging force	30.7 kN (6,902 lb.)	30.7 kN (6,902 lb.)
Bucket digging force	46.6 kN (10,476 lb.)	46.6 kN (10,476 lb.)



Want to add a breaker or other attachment? High-pressure, high-flow auxiliary hydraulic packages meet the need.

Choose from a variety of track widths, arm lengths, buckets, and other options to maximize your efforts.

Two-speed propel with Autoshift helps speed machine moves and maximize maneuverability.

These two transport easily between jobsites, making them perfect for "dig-and-go" jobs.

DEERE

Remove obstacles without moving them.

Empowered with the same no-compromise load-sensing open-center hydraulic system as our other excavators, the 75G and 85G's pinpoint metering delivers unsurpassed smooth-as-silk control. Together with their reduced-tail-swing configurations, they deliver the finesse and footwork to keep jobsite obstacles from becoming barriers. Two power modes, plus an available control-pattern selector, easily adapt to changing job demands and operator preferences. Plus, their highly fuel-efficient direct-injected diesels meet rigid EPA Final Tier 4/EU Stage IV emission standards and are noticeably quiet, so you can put them to work almost anywhere, any time.









Now it's easier than ever for operators to "dial things up." The G-Series' refined monitor employs a rotary control that makes it quick and easy to tap into an abundance of performance and convenience functions and features. Operators will also appreciate the comfortable fabric-covered adjustable suspension seat and ample legroom in the spacious, well-appointed cab. As always, unsurpassed all-round visibility, loweffort joysticks, a highly efficient HVAC system, and numerous other amenities provide everything your operators need to do their best work. And keep them comfortably on-task and ahead of schedule.



 Wide expanse of front and side glass, narrow front cab posts, large tinted overhead hatch, and numerous mirrors provide virtually unrestricted all-around visibility.

Optional lockable control-pattern selector valve enables you to switch from backhoeto SAE-style controls with just a twist of

your wrist.

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

With large self-cleaning steps and wide entryways, getting in and out of our excavators has never been easier.

Spacious cab is comfortable and noticeably quiet. Silicone-filled mounts effectively isolate noise and vibration.

We've got your back with sculpted mechanical-suspension multi-position mid- and high-back seats (75G cab shown).

Automatic, high-velocity bi-level climatecontrol system with automotive-style adjustable louvers helps keep the glass clear and the cab comfortable.

Cab includes a cup holder and storage compartment with nearby power port for a cell phone. The 75G also has a cab-side storage box for a grease gun, tools, or other necessities.

Ergonomically correct short-throw joysticks provide smooth, predictable fingertip control with less movement or effort.

Standard boom/frame lights illuminate the way to extend your day beyond daylight hours.







Nothing runs like this Deere.

Just like you, our 75G and 85G Excavators won't quit. These dependable workers deliver unsurpassed reliability, with job-proven digging structures and hydraulic, electrical, and undercarriage components. Their highly efficient cooling systems keep things running cool, even in high altitudes or tough environments. Other durability-enhancing "extras" include tungsten-carbide-coated wear surfaces and oil-impregnated bushings. When you know how they're built, you'll run a Deere.

A John Deere exclusive, three welded bulkheads within the boom resist torsional stress for unsurpassed durability.

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

Oil-impregnated bushings enhance durability and extend grease intervals to 500 hours for the arm-and-boom joint and 100 hours for the bucket joint.

Durable shields deflect material and impacts, protecting the blade cylinder and propel motors.

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

Viscous fan continuously adjusts speed as necessary for effective cooling. Helps reduce noise and fuel consumption, too.

To help prevent accidental machine movement, a spring-applied, hydraulically released park brake automatically engages when a control lever is released.

Wet-disc swing brake delivers longterm maintenance-free performance.











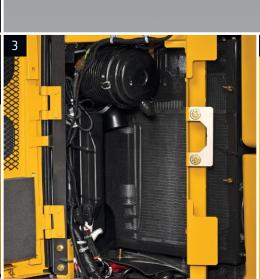
- 1. Box-section track frames, thick-plate single-sheet mainframe, and large swing bearing deliver rock-solid durability.
- 2. Wear-resistant hoses are routed, secured, and guarded for long-term durability. Cordura® covering and wire wrapping adds an extra degree of protection to exposed hoses. O-ring face-seal couplers virtually eliminate leaks.
- 3. Large idlers, rollers, and strutted links in the sealed and lubricated undercarriage deliver long and reliable performance. Optional heavy-duty rubber track pads provide the long-term durability of a steel undercarriage, yet are easy on hard surfaces such as asphalt or concrete.

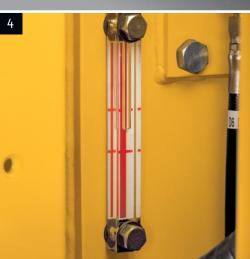
Operating costs are reduced, too.

It's likely that it was the G-Series' compact stature that caught your eye. But it's their reduced daily operating costs that'll really turn your head. Daily and periodic maintenance are quick, easy, and convenient, with large, easy-open doors providing wide-open access to grouped service points. Extended hydraulic and engine oil-change intervals reduce downtime and expense. Plus the easy-to-read LCD monitor lets you track fluid-maintenance intervals to help manage uptime.

- LCD monitor tracks scheduled maintenance intervals and issues reminders. Should a problem arise, it provides diagnostic information to assist in troubleshooting and decrease downtime.
- 2. Vertical spin-on fuel filter and water separator are conveniently located in the right rear compartment for quick and convenient ground-level service access.
- **3.** Left rear compartment houses the battery, engine air filter, fresh-air cab filter, and side-by-side coolers.
- 4. Sight gauges and see-through reservoirs allow hydraulic, coolant, and window-washer fluid-level checks at a glance.

Engine Oil Filter	
Previous Maintenance	•
2013/06/06	0.0h
Remains	498.8h
Maintenance Interval	500.0h
Maintenance Interval	500.0









Engine 750

Manufacturer and Model Yanmar 4TNV98C

Non-Road Emission Standard EPA Final Tier 4/EU Stage IV
Net Power (ISO 9249) 42.4 kW (56.9 hp) at 2,000 rpm

Cylinders

Displacement 3.3 L (202 cu. in.)
Aspiration Natural
Off-Level Capacity 70% (35 deq.)

Cooling

Variable-speed fan; viscous clutch

Powertrain

2-speed propel with automatic shift

Maximum Travel Speed

 Low
 3.1 km/h (1.9 mph)

 High
 5.0 km/h (3.1 mph)

 Drawbar Pull
 6650 kgf (14,661 lb.)

Hydraulics

Open center, load sensing

Main Pumps 3 variable-displacement axial-piston pumps

Maximum Pump Flow 2 x 72 + 56 L/m (2 x 19 + 15 gpm)

Pilot Pump 1 gear

Maximum Rated Flow 20 L/m (5.3 gpm) System Relief Pressure 3900 kPa (566 psi)

System Operating Pressure

 Implement Circuits
 26 000 kPa (3,771 psi)

 Travel Circuits
 31 400 kPa (4,554 psi)

 Swing Circuits
 25 200 kPa (3,655 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

 Boom (1)
 Bore
 Rod Diameter
 Stroke

 Boom (1)
 115 mm (4.5 in.)
 65 mm (2.6 in.)
 885 mm (34.8 in.)

 Arm (1)
 95 mm (3.7 in.)
 60 mm (2.4 in.)
 900 mm (35.4 in.)

 Bucket (1)
 85 mm (3.3 in.)
 55 mm (2.2 in.)
 730 mm (28.7 in.)

Electrical

Batteries2 x 12 voltBattery Capacity2 x 450 CCAAlternator Rating50 amp

Work Lights 2 halogen: 1 mounted on boom and 1 mounted on frame

Undercarriage

Rollers (each side)

Carrier 1
Track 5
Shoes (each side) 40

Track

Adjustment Hydraulic

Chain Sealed and lubricated

Swing Mechanism

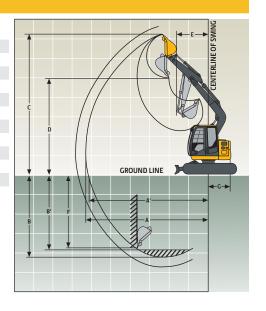
Swing Speed 10.5 rpm

Swing Torque 16 600 Nm (12,244 lb.-ft.)



Ground Pressure	75G		
450-mm (18 in.) Rubber Crawler Pads	39 kPa (5.6 psi)		
450-mm (18 in.) Continuous Rubber Belt	39 kPa (5.6 psi)		
450-mm (18 in.) Triple Semi-Grouser Shoes	38 kPa (5.4 psi)		
600-mm (24 in.) Triple Semi-Grouser Shoes	27 kPa (3.9 psi)		
Serviceability			
Refill Capacities			
Fuel Tank	135 L (35.7 gal.)		
Cooling System	9.7 L (2.6 gal.)		
Engine Oil with Filter	12.3 L (3.2 gal.)		
Hydraulic Tank	56 L (15 gal.)		
Hydraulic System	103 L (27 gal.)		
Propel Gearbox (each)	1.2 L (1.3 qt.)		
Operating Weights			
With 0.31-m ³ (0.41 cu. yd.), 762-mm (30 in.), 313-kg			
(691 lb.) Bucket; 2.12-m (6 ft. 11 in.) Arm; 1305-kg			
(2,877 lb.) Counterweight; 2470-mm (8 ft. 1 in.) Blade;			
Full Fuel Tank; and 75-kg (165 lb.) Operator			
450-mm (18 in.) Rubber Crawler Pads	8143 kg (17,952 lb.)		
450-mm (18 in.) Triple Semi-Grouser Shoes	7882 kg (17,377 lb.)		
600-mm (24 in.) Triple Semi-Grouser Shoes	8265 kg (18,221 lb.)		
450-mm (18 in.) Continuous Rubber Belt	7898 kg (17,412 lb.)		
Optional Components			
Undercarriage (with the following)			
450-mm (18 in.) Rubber Crawler Pads	2903 kg (6,400 lb.)		
450-mm (18 in.) Continuous Rubber Belt	2867 kg (6,321 lb.)		
450-mm (18 in.) Triple Semi-Grouser Shoes	2851 kg (6,285 lb.)		
600-mm (24 in.) Triple Semi-Grouser Shoes	3025 kg (6,669 lb.)		
1-Piece Boom (with arm cylinder)	497 kg (1,096 lb.)		
Arm with Bucket Cylinder and Linkage			
1.62 m (5 ft. 4 in.)	238 kg (525 lb.)		
2.12 m (6 ft. 11 in.)	276 kg (608 lb.)		
Boom Lift Cylinders (2), Total Weight	178 kg (392 lb.)		
Counterweight, Standard	1305 kg (2,877 lb.)		
Operating Dimensions			
	Arm Lenath	Arm Lenath	12

	Arm Length	Arm Length
	1.62 m (5 ft. 4 in.)	2.12 m (6 ft. 11 in.)
Arm Digging Force (ISO)	35.5 kN (7,981 lb.)	30.7 kN (6,902 lb.)
Bucket Digging Force (ISO)	46.6 kN (10,476 lb.)	46.6 kN (10,476 lb.)
A Maximum Reach	6.43 m (21 ft. 1 in.)	6.92 m (22 ft. 8 in.)
A ^I Maximum Reach at Ground Level	6.26 m (20 ft. 6 in.)	6.76 m (22 ft. 2 in.)
B Maximum Digging Depth	4.11 m (13 ft. 6 in.)	4.61 m (15 ft. 1 in.)
BI Maximum Digging Depth at 2.44-m (8 ft.) Flat Bot	tom 3.75 m (12 ft. 4 in.)	4.32 m (14 ft. 2 in.)
C Maximum Cutting Height	7.21 m (23 ft. 8 in.)	7.61 m (25 ft. 0 in.)
D Maximum Dumping Height	5.12 m (16 ft. 10 in.)	5.51 m (18 ft. 1 in.)
E Minimum Swing Radius	1.81 m (5 ft. 11 in.)	2.17 m (7 ft. 1 in.)
F Maximum Vertical Wall	3.67 m (12 ft. 0 in.)	4.22 m (13 ft. 10 in.)
G Tail Swing Radius	1.29 m (4 ft. 3 in.)	1.29 m (4 ft. 3 in.)



Machine Dimensions	75G	
	Arm Length	Arm Length
	1.62 m (5 ft. 4 in.)	2.12 m (6 ft. 11 in.)
A Overall Length	6.30 m (20 ft. 8 in.)	6.37 m (20 ft. 11 in.)
B Overall Height	2.69 m (8 ft. 10 in.)	2.69 m (8 ft. 10 in.)
C Undercarriage Width		
With 450-mm (18 in.) Shoes	2.32 m (7 ft. 7 in.)	
With 600-mm (24 in.) Shoes	2.47 m (8 ft. 1 in.)	
D Rear-End Length/Swing Radius	1.29 m (4 ft. 3 in.)	
E Distance Between Idler/Sprocket Centerline	2.29 m (7 ft. 6 in.)	H B B
F Undercarriage Length	2.92 m (9 ft. 7 in.)	
G Counterweight Clearance	0.73 m (29 in.)	
H Cab Height	2.69 m (8 ft. 10 in.)	
I Ground Clearance	360 mm (14 in.)	_ → ←OE
J Upperstructure Width	2.32 m (7 ft. 7 in.)	F
K Gauge Width	1.87 m (6 ft. 2 in.)	C A —
L Blade Lift Height	360 mm (14 in.)	
Blade Height	480 mm (19 in.)	
Blade Width		
With 450-mm (18 in.) Shoes	2320 mm (7 ft. 9 in.)	_
With 600-mm (24 in.) Shoes	2470 mm (8 ft. 1 in.)	
M Blade Cut Below Grade	300 mm (12 in.)	▼
N Blade Lift Angle	27 deg.	\sqrt{N}
O Track Width		<u> </u>
With 450-mm (18 in.) Shoes	0.45 m (18 in.)	<u> </u>
With 600-mm (24 in.) Shoes	0.60 m (24 in.)	M
Life of the last		

Lift Capacities

Boldface type indicates hydraulically 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. Total load includes weight of cables, hook, etc. Figures do not exceed 87% of hydraulic capacity or 75% of weight needed to tip machine. All lift capacities are based on ISO 10567.

machine. All lift capacities a	are based on ISO 105	67.	-					·
Load Point Height	1.5 m	(5 ft.)	3.0 m	(10 ft.)	4.5 m	(15 ft.)	6.0 m ((20 ft.)
Horizontal Distance from								
Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 3.72-m (12 ft. 8 in.) bo	oom, 1.62-m (5 ft. 4 i	n.) arm, 0.28-m³ (0	37 cu. yd.) bucket, 4	50-mm (18 in.) rubl	ber pads, and 2320-	mm (7 ft. 9 in.) blad	de	
4.5 m (15 ft.)			1616 (3,562)	1616 (3,562)				
3.0 m (10 ft.)			2223 (4,901)	2223 (4,901)	1829 (4,032)	1605 (3,539)		
1.5 m (5 ft.)			3192 (7,038)	2752 (6,067)	2121 (4,675)	1538 (3,390)		
Ground Line			3615 (7,969)	2635 (5,810)	2327 (5,131)	1486 (3,275)		
–1.5 m (–5 ft.)	4476 (9,867)	4476 (9,867)	3402 (7,500)	2634 (5,807)				
With 3.72-m (12 ft. 8 in.) bo	oom, 2.12-m (6 ft. 11	in.) arm, 0.28-m³ (0	0.37 cu. yd.) bucket,	450-mm (18 in.) rul	bber pads, and 2320)-mm (7 ft. 9 in.) blo	ade	
4.5 m (15 ft.)			ŕ		1475 (3,252)	1475 (3,252)		
3.0 m (10 ft.)			1834 (4,043)	1834 (4,043)	1613 (3,557)	1613 (3,557)		
1.5 m (5 ft.)			2864 (6,313)	2797 (6,167)	1958 (4,317)	1541 (3,397)		
Ground Line			3508 (7,734)	2629 (5,797)	2248 (4,956)	1472 (3,246)		
–1.5 m (–5 ft.)	3544 (7,813)	354 4 (7,813)	3514 (7,746)	2594 (5,718)	2252 (4,964)	1451 (3,199)		
−3.0 m (−10 ft.)	5020 (11,068)	5020 (11,068)	2742 (6,044)	2663 (5,870)				
With 3.72-m (12 ft. 8 in.) bo	oom, 1.62-m (5 ft. 4 i	n.) arm, 0.28-m³ (0	37 cu. yd.) bucket, 6	00-mm (24 in.) sho	es, and 2470-mm (8	ft. 1 in.) blade		
4.5 m (15 ft.)			1616 (3,562)	1616 (3,562)				
3.0 m (10 ft.)			2223 (4,901)	2223 (4,901)	1829 (4,032)	1630 (3,594)		
1.5 m (5 ft.)			3192 (7,038)	2796 (6,164)	2121 (4,675)	1563 (3,446)		
Ground Line			3615 (7,969)	2679 (5,906)	2327 (5,131)	1510 (3,330)		
–1.5 m (–5 ft.)	4476 (9,867)	4476 (9,867)	3402 (7,500)	2678 (5,903)	(-,,	(-1)		

Lift Capacities (continued)

75G

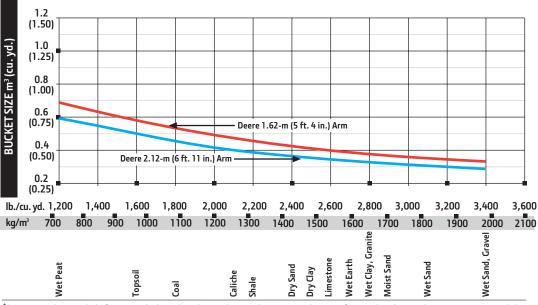
Boldface type indicates hydraulically limited capacities; lightface type indicates stability-limited capacities, in kg (lb.). Ratings are at bucket lift hook, using standard counterweight, situated on firm, level, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87% of hydraulic capacity or 75% of weight needed to tip machine. All lift capacities are based on ISO 10567.

Load Point Height	1.5 m	(5 ft.)	3.0 m (10 ft.)	4.5 m (15 ft.)	6.0 m (20 ft.)
Horizontal Distance from								
Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 3.72-m (12 ft. 8 in.) book	m, 2.12-m (6 ft. 11 in.,) arm, 0.28-m³ (0.37	7 cu. yd.) bucket, 600	-mm (24 in.) shoes,	and 2470-mm (8 ft.)	l in.) blade		
4.5 m (15 ft.)					1475	1475		
					(3,252)	(3,252)		
3.0 m (10 ft.)			1834	1834	1613	1613		
			(4,043)	(4,043)	(3,557)	(3,557)		
1.5 m (5 ft.)			2864	2841	1958	1566		
			(6,313)	(6,263)	(4,317)	(3,452)		
Ground Line			3508	2673	2248	1497		
			(7,734)	(5,893)	(4,956)	(3,301)		
–1.5 m (–5 ft.)	3544	3544	3514	2637	2252	1476		
	(7,813)	(7,813)	(7,746)	(5,814)	(4,964)	(3,254)		
–3.0 m (–10 ft.)	5020	5020	2742	2707				
	(11,068)	(11,068)	(6,044)	(5,967)				
With 3.72-m (12 ft. 8 in.) book	m, 1.62-m (5 ft. 4 in.)	arm, 0.28-m³ (0.37 c	cu. yd.) bucket, 450-i	mm (18 in.) continu	ous rubber belt, and λ	2470-mm (8 ft. 1 in	.) blade	
3.0 m (10 ft.)			2241	2241				
			(4,940)	(4,940)				
1.5 m (5 ft.)			3207	2608				
			(7,070)	(5,750)				
Ground Line			3620	2499	2327	1415		
			(7,980)	(5,510)	(5,130)	(3,120)		
–1.5 m (–5 ft.)	4527	4527	3393	2499				
	(9,980)	(9,980)	(7,480)	(5,510)				

Buckets

A full line of buckets is offered to meet a wide variety of applications. Replaceable cutting edges are available through John Deere Parts. Optional side cutters add 150 mm (6 in.) to bucket widths.

							Bucl	ket Dig	Arm Dig	Force (ISO)	Arm Dig	Force (ISO)			Number
Type Bucket	Bucket	Width	Bucket	Capacity	Bucket	Weight	Ford	e (ISO)	1.62 m (5 ft. 4 in.)	2.12 m (6	5 ft. 11 in.)	Bucket T	ip Radius	of Teeth
	mm	in.	m^3	cu. yd.	kg	lb.	kN	lb.	kN	lb.	kN	lb.	mm	in.	
Heavy Duty	610	24	0.24	0.31	268	591	44	9,892	34	7,545	29	6,524	883	34.76	5
	762	30	0.31	0.41	313	691	44	9,892	34	7,545	29	6,524	883	34.76	6
	914	36	0.39	0.51	358	790	44	9,892	34	7,545	29	6,524	883	34.76	7
Ditching	1219	48	0.49	0.64	330	727	64	14,344	40	8,911	33	7,473	907	35.69	0
Bucket Select	Bucket Selection Guide*														



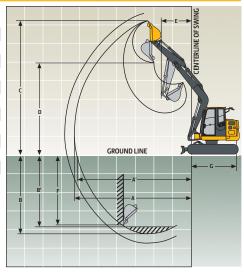
^{*}Contact your John Deere dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Does not include optional equipment such as thumbs or couplers. Larger buckets may be possible when using light materials, for flat and level operations, 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.

Engine	85G		
Manufacturer and Model	Yanmar 4TNV98C-WHBW		
Non-Road Emission Standard	EPA Final Tier 4/EU Stage I	V	
Net Power (ISO 9249)	42.4 kW (56.9 hp) at 2,000) rpm	
Cylinders	4		
Displacement	3.3 L (202 cu. in.)		
Aspiration	Natural		
Off-Level Capacity	70% (35 deg.)		
Cooling			
Variable-speed fan; viscous clutch			
Powertrain			
2-speed propel with automatic shift			
Maximum Travel Speed			
Low	3.1 km/h (1.9 mph)		
High	5.0 km/h (3.1 mph)		
Drawbar Pull	6650 kgf (14,661 lb.)		
Hydraulics			
Open center, load sensing			
Main Pumps	3 variable-displacement ax	kial-piston pumps	
Maximum Pump Flow	2 x 72 + 56 L/m (2 x 19 + 1		
Pilot Pump	1 gear	51 .	
Maximum Rated Flow	20 L/m (5.3 gpm)		
System Relief Pressure	3900 kPa (566 psi)		
System Operating Pressure			
Implement Circuits	26 000 kPa (3,771 psi)		
Travel Circuits	31 400 kPa (4,554 psi)		
Swing Circuits	25 000 kPa (3,626 psi)		
Controls		ow effort; hydraulic pilot controls	with shutoff lever
Cylinders		,	
Heat-treated, chrome-plated, polished cylinder rods;	hardened steel (replaceable bush	ings) pivot pins	
	Bore	Rod Diameter	Stroke
Boom (1)	115 mm (4.5 in.)	65 mm (2.6 in.)	885 mm (34.8 in.)
Arm (1)	95 mm (3.7 in.)	60 mm (2.4 in.)	900 mm (35.4 in.)
Bucket (1)	85 mm (3.3 in.)	55 mm (2.2 in.)	730 mm (28.7 in.)
Electrical			
Batteries	2 x 12 volt		
Battery Capacity	2 x 450 CCA		
Alternator Rating	50 amp		
Work Lights	2 halogen: 1 mounted on l	ooom and 1 mounted on frame	
Undercarriage	<u> </u>		
Rollers (each side)			
Carrier	1		
Track	5		
Shoes (each side)	40		
Track			
Adjustment	Hydraulic		
Chain	Sealed and lubricated		
Swing Mechanism			
Swing Speed	10.5 rpm		
Swing Torque	16 600 Nm (12,244 lbft.)		
Boom Swing			
Left	60 deg.		
Right	60 deg.		
9	oo acg.		



Ground Pressure	85G		
450-mm (18 in.) Rubber Crawler Pads	41.5 kPa (6.0 psi)		
450-mm (18 in.) Continuous Rubber Belt	41.4 kPa (6.0 psi)		
450-mm (18 in.) Triple Semi-Grouser Shoes	41.3 kPa (6.0 psi)		
600-mm (24 in.) Triple Semi-Grouser Shoes	31.7 kPa (4.6 psi)		
Serviceability			
Refill Capacities			
Fuel Tank	120 L (31.7 gal.)		
Cooling System	9.7 L (2.6 gal.)		
Engine Oil with Filter	12.3 L (3.2 gal.)		
Hydraulic Tank	56 L (15 gal.)		
Hydraulic System	103 L (27 gal.)		
Propel Gearbox (each)	1.2 L (1.3 qt.)		
Operating Weights			
With 0.31-m ³ (0.41 cu. yd.), 762-mm (30 in.), 313-kg			
(691 lb.) Bucket; 2.12-m (6 ft. 11 in.) Arm; 1408-kg			
(3,104 lb.) Counterweight; Full Fuel Tank; and 75-kg			
(165 lb.) Operator			
2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.)	8729 kg (19,244 lb.)		
Rubber Crawler Pads			
2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.)	8677 kg (19,130 lb.)		
Triple Semi-Grouser Shoes			
2470-mm (8 ft. 1 in.) blade and 600-mm (24 in.)	8874 kg (19,564 lb.)		
Triple Semi-Grouser Shoes			
2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.)	8701 kg (19,182 lb.)		
Continuous Rubber Belt			
Optional Components			
Undercarriage (with the following)			
450-mm (18 in.) Rubber Crawler Pads	2871 kg (6,329 lb.)		
450-mm (18 in.) Continuous Rubber Belt	2843 kg (6,268 lb.)		
450-mm (18 in.) Triple Semi-Grouser Shoes	2819 kg (6,215 lb.)		
600-mm (24 in.) Triple Semi-Grouser Shoes	2970 kg (6,548 lb.)		
1-Piece Boom (with arm cylinder)	491 kg (1,082 lb.)		
Arm with Bucket Cylinder and Linkage			
1.62 m (5 ft. 4 in.)	237 kg (522 lb.)		
2.12 m (6 ft. 11 in.)	275 kg (606 lb.)		
Boom Lift Cylinder	89 kg (196 lb.)		
0.49-m³ (0.64 cu. yd.), 1219-mm (48 in.) Ditching Bucket	330 kg (728 lb.)		
Counterweight (standard)	1408 kg (3,104 lb.)		
Operating Dimensions			
	Arm Length	Arm Length	אַכ
	1.62 m (5 ft. 4 in.)	2.12 m (6 ft. 11 in.)	₽ E → IMMS

		Allii Leligili	Allii Leligili
		1.62 m (5 ft. 4 in.)	2.12 m (6 ft. 11 in.)
Arı	m Digging Force (ISO)	35.5 kN (7,981 lb.)	30.7 kN (6,902 lb.)
Bu	cket Digging Force (ISO)	46.6 kN (10,476 lb.)	46.6 kN (10,476 lb.)
Α	Maximum Reach	7.21 m (23 ft. 8 in.)	7.70 m (25 ft. 3 in.)
ΑI	Maximum Reach at Ground Level	7.05 m (23 ft. 2 in.)	7.55 m (24 ft. 9 in.)
В	Maximum Digging Depth	3.99 m (13 ft. 1 in.)	4.51 m (14 ft. 10 in.)
B	Maximum Digging Depth at 2.44-m (8 ft.) Flat Bottom	3.62 m (11 ft. 11 in.)	4.20 m (13 ft. 9 in.)
C	Maximum Cutting Height	6.79 m (22 ft. 3 in.)	7.14 m (23 ft. 5 in.)
D	Maximum Dumping Height	4.77 m (15 ft. 8 in.)	5.08 m (16 ft. 8 in.)
Ε	Minimum Swing Radius	2.74 m (9 ft. 0 in.)	2.89 m (9 ft. 6 in.)
F	Maximum Vertical Wall	3.47 m (11 ft. 5 in.)	4.05 m (13 ft. 3 in.)
G	Tail Swing Radius	1.49 m (4 ft. 11 in.)	1.49 m (4 ft. 11 in.)
	-		



Machine Dimensions	85G	
	Arm Length	Arm Length
	1.62 m (5 ft. 4 in.)	2.12 m (6 ft. 11 in.)
A Overall Length	6.64 m (21 ft. 9 in.)	6.82 m (22 ft. 5 in.)
B Overall Height		
With 450-mm (18 in.) Rubber Crawler Pads	2.61 m (8 ft. 7 in.)	
With Steel Shoes	2.53 m (8 ft. 4 in.)	
C Undercarriage Width		
With 450-mm (18 in.) Shoes	2.20 m (7 ft. 3 in.)	
With 600-mm (24 in.) Shoes	2.47 m (8 ft. 1 in.)	
D Rear-End Length/Swing Radius	1.49 m (4 ft. 11 in.)	
E Distance Between Idler/Sprocket Centerline	2.29 m (7 ft. 6 in.)	
F Undercarriage Length	2.92 m (9 ft. 7 in.)	
G Counterweight Clearance	0.72 m (28 in.)	<u> </u>
H Cab Height	2.53 m (8 ft. 4 in.)	K 1 1 U
I Ground Clearance	360 mm (14 in.)	A A
J Upperstructure Width	2.32 m (7 ft. 7 in.)	
K Gauge Width	1.87 m (6 ft. 2 in.)	
L Blade Lift Height	340 mm (13 in.)	
Blade Height	460 mm (18 in.)	
Blade Width		.
With 450-mm (18 in.) Shoes	2200 mm (7 ft. 3 in.)	
With 600-mm (24 in.) Shoes	2470 mm (8 ft. 1 in.)	V I
M Blade Cut Below Grade	320 mm (13 in.)	→ N D
N Blade Lift Angle	26 deg.	↑
O Track Width		<u> </u>
With 450-mm (18 in.) Shoes	0.45 m (18 in.)	IVI
With 600-mm (24 in.) Shoes	0.60 m (24 in.)	

Lift Capacities

Boldface type indicates hydraulically 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. Total load includes weight of cables, hook, etc. Figures do not exceed 87% of hydraulic capacity or 75% of weight needed to tip machine. All lift capacities are based on ISO 10567.

machine. All lift capacities are	e based on ISO 105	67.						
Load Point Height 1.5 m (5 ft.)			3.0 m (10 ft.)	4.5 m (15 ft.)	6.0 m	(20 ft.)
Horizontal Distance from								
Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 3.67-m (12 ft. 2 in.) boo	m, 1.62-m (5 ft. 4 ii	n.) arm, 0.28-m³ (0.	37 cu. yd.) bucket, 4	50-mm (18 in.) rubi	ber pads, and 2200-l	mm (7 ft. 3 in.) blad	le	
3.0 m (10 ft.)			3432	2887	2312	1580		
			(7,567)	(6,365)	(5,096)	(3,484)		
1.5 m (5 ft.)					2819	1481	2078	992
					(6,215)	(3,265)	(4,582)	(2,188)
Ground Line			2434	2434	3047	1416		
			(5,367)	(5,367)	(6,717)	(3,121)		
–1.5 m (–5 ft.)			4279	2503	2711	1410		
14/1/1 2.67 / // / / / / / / / / / / / / / / / /	2.12 (6.6.11		(9,433)	(5,518)	(5,976)	(3,109)	,	
With 3.67-m (12 ft. 2 in.) boo	m, 2.12-m (6 ft. 11	in.) arm, U.28-m³ (U	J.37 cu. yd.) bucket,	450-mm (18 in.) rui			de	
4.5 m (15 ft.)					1735	1656		
2.0 (10.5)					(3,825) 2044	(3,651) 1597	1809	1022
3.0 m (10 ft.)					20 44 (4,506)	(3,521)	(3,988)	1022 (2,253)
1.5 m (5 ft.)					2619	1488	1968	986
1.5 111 (5 11.)					(5,773)	(3,280)	(4,339)	(2,174)
Ground Line			2577	2445	2992	1403	2069	952
Ground Enic			(5,682)	(5,391)	(6,597)	(3,092)	(4,561)	(2,098)
–1.5 m (–5 ft.)	2683	2683	4770	2448	2868	1377	(1,001)	(=,===,
(5,	(5,914)	(5,914)	(10,516)	(5,397)	(6,322)	(3,036)		
-3.0 m (-10 ft.)	, , ,	. , ,	3130	3130	, , ,	, , ,		
			(7,012)	(5,560)				
With 3.67-m (12 ft. 2 in.) boo	m, 1.62-m (5 ft. 4 ii	n.) arm, 0.28-m³ (0.	37 cu. yd.) bucket, 6	00-mm (24 in.) sho	es, and 2470-mm (8	ft. 1 in.) blade		
3.0 m (10 ft.)			3432	2927	2312	1603		
			(7,567)	(6,453)	(5,096)	(3,535)		
1.5 m (5 ft.)					2819	1505	2078	1009
					(6,215)	(3,317)	(4,582)	(2,224)
Ground Line			2434	2434	3047	1439		
			(5,367)	(5,367)	(6,717)	(3,172)		
–1.5 m (–5 ft.)			4279	2543	2711	1433		
			(9,433)	(5,606)	(5,976)	(3,160)		

Lift Capacities (continued)

85G

Boldface type indicates hydraulically 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. Total load includes weight of cables, hook, etc. Figures do not exceed 87% of hydraulic capacity or 75% of weight needed to tip machine. All lift capacities are based on ISO 10567.

Load Point Height	1.5 m	(5 ft.)	3.0 m (10 ft.) 4.5 m (15 ft.)		(15 ft.)	6.0 m (20 ft.)		
Horizontal Distance from	0	0	0	051.1.	0	051.1.	0	0
Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 3.67-m (12 ft. 2 in.) boon	n, 2.12-m (6 ft. 11 in.,) arm, U.28-m³ (U.37	' cu. yd.) bucket, 600	-mm (24 in.) shoes,		•		
4.5 m (15 ft.)					1735 (3,825)	1679 (3,702)		
3.0 m (10 ft.)					2044 (4,506)	1620 (3,572)	1809 (3,988)	1038 (2,289)
1.5 m (5 ft.)					2619 (5,773)	1511 (3,332)	1968 (4,339)	1002 (2,210)
Ground Line			2577 (5,682)	2485 (5,479)	2992 (6,597)	1426 (3,143)	2069 (4,561)	968 (2,134)
–1.5 m (–5 ft.)	2683 (5,914)	2683 (5,914)	4770 (10,516)	2488 (5,485)	2868 (6,322)	1400 (3,087)		
−3.0 m (−10 ft.)			3130 (7,012)	3130 (5,647)				
With 3.67-m (12 ft. 2 in.) boon	n, 2.12-m (6 ft. 11 in.,	arm, less bucket, 4	50-mm (18 in.) conti	nuous rubber belt, d	and 2200-mm (7 ft. 3	in.) blade		
4.5 m (15 ft.)					1728 (3,810)	1579 (3,480)		
3.0 m (10 ft.)					2050 (4,520)	1520 (3,350)	1805 (3,980)	971 (2,140)
1.5 m (5 ft.)					2626 (5,790)	1411 (3,110)	1969 (4,340)	934 (2,060)
Ground Line			2595 (5,720)	2309 (5,090)	2994 (6,600)	1329 (2,930)	2068 (4,560)	903 (1,990)
–1.5 m (–5 ft.)	2708 (5,970)	2708 (5,970)	4758 (10,490)	2309 (5,090)	2862 (6,310)	1306 (2,880)	•	

Buckets

-3.0 m (-10 ft.)

A full line of buckets is offered to meet a wide variety of applications. Replaceable cutting edges are available through John Deere Parts. Optional side cutters add 150 mm (6 in.) to bucket widths.

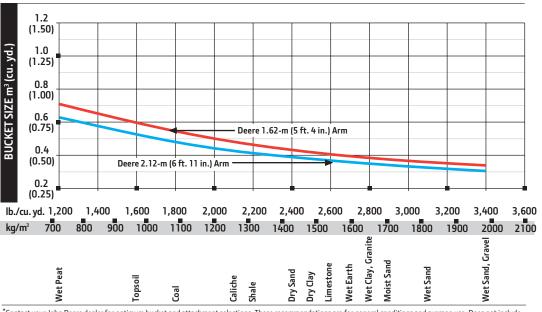
2386

(5,260)

3139

(6,920)

Type Bucket			cet Dig e (ISO)			Arm Dig Force (ISO) 2.12 m (6 ft. 11 in.)		Bucket Tip Radius		Number of Teeth					
	mm	in.	m^3	cu. yd.	kg	lb.	kN	lb.	kN	lb.	kN	lb.	mm	in.	
Heavy Duty	610	24	0.31	0.40	287	633	54	12,061	38	8,491	32	7,162	1087	42.80	5
	762	30	0.41	0.53	333	735	54	12,061	38	8,491	32	7,162	1087	42.80	6
	914	36	0.50	0.66	380	837	54	12,061	38	8,491	32	7,162	1087	42.80	7
Ditching	1219	48	0.49	0.64	330	727	64	14,344	40	8,911	33	7,473	907	35.69	0
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, 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.

Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

75G	85G	Engine	75G	85G	Upperstructu
•	•	Auto-idle system	•		Counterweigh
		Batteries (2 – 12 volt)			Counterweigh
•	•	Coolant recovery tank	•	•	Right- and lef
		Single-element air filter			Vandal locks w
•	•	Electronic engine control			Engine hood /
		Enclosed fan guard (conforms to SAE	•		Remote-mour
		J1308)			filters
		Engine coolant to -37 deg. C (-34 deg. F)			Front Attachr
		Fuel filter with water separator	•	•	Centralized lu
		Full-flow oil filter			Dirt seals on a
		Radiator and oil cooler with dust-protec-	•	•	Less boom an
		tive net			Oil-impregnat
		Glow-plug start aid	•		Reinforced res
		500-hour engine oil-change interval	•		Tungsten carb
		70% (35 deg.) off-level capacity			arm-to-bucke
		Isolation mounted	A	A	Arm, 1.62 m (
		Hydraulic System			Arm, 2.12 m (6
		Reduced-drift valve for boom down, arm in	A	A	Attachment q
		Auxiliary hydraulic valve section			Buckets: Ditch
		Spring-applied, hydraulically released			duty high capa
		automatic swing brake			Operator's St
		Auxiliary hydraulic-flow adjustments	•	•	Meets ISO 12
		through monitor	•	•	Adjustable ind
•	•	5,000-hour hydraulic oil-change interval			(seat-to-peda
		Auxiliary hydraulic lines	•		AM/FM radio
A	A	Auxiliary pilot and electric controls		•	Auto climate o
		Hydraulic filter restriction indicator kit			heater and pro Built-in opera
A	A	Load-lowering control device	. •		compartment
		Single-pedal propel control			Cell-phone po
A	A	Control pattern-change valve			5 amp
		Undercarriage	•	•	Coat hook
•	•	Planetary drive with axial piston motors			Deluxe cloth s
		Propel motor shields			able armrests
•		Spring-applied, hydraulically released	•	•	Floor mat
_	_	automatic propel brake			Front windshi
•	•	2-speed propel with automatic shift			speeds
•	•	Upper carrier roller (1)	•		Gauges (illumi
•	•	Sealed and lubricated track chain			Horn, electric
•	•	Undercarriage with blade	•	•	Hour meter, e
		Triple semi-grouser shoes, 450 mm (18 in.)			Hydraulic shut
A	A	Triple semi-grouser shoes, 600 mm (24 in.)	•	•	Hydraulic war
		Rubber crawler pads, 450 mm (18 in.)			Interior light
		Rubber belt, continuous, 450 mm (18 in.)			

'5G	85G	Upperstructure	7	75G	85G	Operator's Station (continued)
		Counterweight, 1305 kg (2,877 lb.)				Large cup holder
		Counterweight, 1408 kg (3,104 lb.)		•		Machine Information Center (MIC)
•	•	Right- and left-hand mirrors		•	•	Mode selectors (illuminated): Power
•		Vandal locks with ignition key: Cab door /				modes (2) / Travel modes (2 with auto-
		Engine hood / Fuel cap / Service doors				matic shift) / Work mode (1)
•		Remote-mounted engine oil and fuel		•		Multifunction, color LCD monitor with:
		filters				Diagnostic capability / Multiple-languag
		Front Attachments				capabilities / Maintenance tracking /
		Centralized lubrication system				Clock / System monitoring with alarm
•		Dirt seals on all bucket pins				features: Auto-idle indicator, engine air
•		Less boom and arm				cleaner restriction indicator light, engin
•		Oil-impregnated bushings				check, engine coolant temperature indi-
•	•	Reinforced resin thrust plates				cator light with audible alarm, engine o
•	•	Tungsten carbide thermal coating on				pressure indicator light with audible alarn
		arm-to-bucket joint				low-alternator-charge indicator light,
A		Arm, 1.62 m (5 ft. 4 in.)				low-fuel indicator light, fault-code alert
A		Arm, 2.12 m (6 ft. 11 in.)				indicator, fuel-rate display, wiper-mode
A	A	Attachment quick-couplers				indicator, work-lights-on indicator, and
A		Buckets: Ditching / Heavy duty / Heavy-		_	_	work-mode indicator
		duty high capacity / Side cutters and teeth				Motion alarm with cancel switch
		Operator's Station				(conforms to SAE J994) Auxiliary hydraulic control switches in
		Meets ISO 12117-2 for ROPS				right console lever
•		Adjustable independent control positions				SAE 2-lever control pattern
		(seat-to-pedals)				Seat belt, 51 mm (2 in.), retractable
•	•	AM/FM radio				Tinted glass
•	•	Auto climate control/air conditioner with				Transparent tinted overhead hatch
		heater and pressurizer				Transparent tinted overhead window
		Built-in operator's manual storage				
		compartment and manual		•		Hot/cold beverage compartment Seat belt, 76 mm (3 in.), non-retractable
•	•	Cell-phone power outlet, 12 volt, 60 watt,		•		Protection screens for cab front, rear,
		5 amp		•	•	and side
•	•	Coat hook				Window vandal-protection covers
•	•	Deluxe cloth suspension seat with adjust-		A	A	Electrical
		able armrests				50-amp alternator
•	•	Floor mat			•	Blade-type multi-fused circuits
•		Front windshield wiper with intermittent			•	
		speeds		•	_	Positive-terminal battery covers
		Gauges (illuminated): Engine coolant / Fuel		•	A	JDLink™ wireless communication system
•		Horn, electric				(available in specific countries; see your dealer for details)
•		Hour meter, electric				Lights
•		Hydraulic shutoff lever, all controls				Work lights: Halogen / 1 mounted on
	•	Hydraulic warm-up control		•		hoom / 1 mounted on frame



boom / 1 mounted on frame