770G Motor Grader

190 kW (255 net hp)

JOHN DEERE

FEATURES

Increased engine horsepower, torque, and blade pull deliver generous power and lugging ability, to easily pull through tough spots or tackle steep hills.

Redesigned heavy-duty front and rear axles and increased maximum operating weight provide more versatility for attachments on your jobsite.

Cab improvements include an upgraded LCD hi-vis monitor with visibility to machine conditions and diagnostic codes. All-new gate-less shifter design builds on the success of Deere's exclusive Event-Based Shifting technology, allowing operators to go directly from forward to reverse in any gear at any time.

New Eco mode helps optimize fuel usage, decreasing operating costs by five to 10 percent.

Large service doors open wide for grouped, same-side maintenance. Sealed diesel exhaust fluid (DEF) and fuel tank doors are ground-level accessible.



Engine	**770G**		
	Optional engine: For use only in areas where EPA Final Tier 4 (FT4)/EU Stage IV is required	*Optional engine: For use only in areas where EPA Tier 3/EU Stage IIIA is required*	*Optional engine: For use in areas where EPA Tier 3/EU Stage IIIA or EPA Interim Tier 4 (IT4)/ EU Stage IIIB is not required*
Manufacturer and Model	John Deere PowerTech™ PSS 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech™ 9.0L
Non-Road Emission Standard	EPA FT4/EU Stage IV	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II
Cylinders	6	6	6
Displacement	9.0L (548 cu. in.)	9.0L (548 cu. in.)	9.0L (548 cu. in.)
Net Engine Power	190 kW (255 hp)	187 kW (250 hp)	187 kW (250 hp)
Net Peak Torque	1318 Nm (972 lb.-ft.)	1291 Nm (952 lb.-ft.)	1291 Nm (952 lb.-ft.)
Net Torque Rise	64%	64%	64%
Powertrain			
Transmission	Direct-drive John Deere PowerShift Plus™, modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal		
Gears			
Forward	8		
Reverse	8		
Maximum Travel Speeds: with No Tire Slip at 2,180 rpm and 14.0-R24 Tires – Gear 8	45.5 km/h (28.3 mph)		
Differentials	Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic differential lock		
Steering (all models include steering wheel)	All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro option		
Turning Radius (front steer and articulation)	7.21 m (284 in.) (23 ft. 8 in.)		
Hydraulics			
Type	Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump		
Maximum Pump Flow	212 L/m (56 gpm)		
Maximum System Pressure	18 961 kPa (2,750 psi)		

Blade Function	770G		
Blade Range			
Lift Above Ground	490 mm (19.3 in.)		
Blade Side Shift, Right or Left	683 mm (26.9 in.)		
Shoulder Reach Outside Wheels (frame straight), Right or Left	2083 mm (82.0 in.) (6 ft. 10 in.)		
Bank Cut Angle, Right or Left	90 deg.		
Blade Pull			
At Maximum Operating Weight	15 501 kg (34,173 lb.)		
Electrical			
Voltage	24 volt		
Moldboard			
Type	Blade side-shift wear system includes quick-change replaceable wear inserts and quick-adjust jackscrew system		
Base Length	3.66 m (144 in.) (12 ft. 0 in.)		
Tires/Wheels			
	14R24 on 254-mm (10 in.) Rim	*17.5R25 on 356-mm (14 in.) Rim*	*550/65R25 on 432-mm (17 in.) Rim*
Wheel Tread on Ground	2.08 m (82.0 in.)	2.16 m (85.0 in.)	2.21 m (87.0 in.)
Overall Width	2.49 m (98.0 in.)	2.64 m (104.0 in.)	2.77 m (109.0 in.)
Ground Clearance (front axle)	587 mm (23.1 in.)	587 mm (23.1 in.)	612 mm (24.1 in.)
Serviceability			
Refill Capacities (FT4)			
Fuel Tank	416.5 L (110 gal.)		
Hydraulic Reservoir	60.5 L (16 gal.)		
Operating Weights			
Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment	*EPA Final Tier 4*	*EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II*	
Front	5570 kg (12,280 lb.)	5605 kg (12,358 lb.)	
Rear	13 825 kg (30,480 lb.)	13 175 kg (29,047 lb.)	
Total	19 396 kg (42,760 lb.)	18 781 kg (41,405 lb.)	
Maximum Operating Weight	24 948 kg (55,000 lb.)	24 948 kg (55,000 lb.)	
Machine Dimensions			
A Height to Top of Cab	3.18 m (125.0 in.) (10 ft. 5 in.)		
B Tandem Axle Spacing	1.54 m (60.8 in.) (5 ft. 1 in.)		
C Blade Base	2.57 m (101.0 in.) (8 ft. 5 in.)		
D Wheelbase	6.16 m (242.6 in.) (20 ft. 3 in.)		
E Overall Length	8.89 m (349.8 in.) (29 ft. 2 in.)		
F Overall Length with Push Block and Ripper	9.99 m (393.4 in.) (32 ft.9 in.)		

For Overall Width see Tires/Wheels above.

