

6M Series

110–195 Engine Horsepower Tractors



*Made to perform
at a higher level.*





When you need to slow down, you have PowerFill™ brakes that are liquid cooled for more power and longevity.



Left-hand PowerReverser™ makes clutch-free forward and reverse shifts easy and will help you handle loader work more efficiently.

Joystick with push button activation lets you shift and control the loader with one lever.



The operating environment of the 6M is built to help you stay comfortable and on top of your chores ... whatever they happen to be. Everything is within reach, intuitive and easy to use. That includes the controls for the CommandQuad PLUS transmission (shown here).

*Ready to tackle the impossible?
The 6M is ...*

Big days call for big hydraulic performance. And the 6M has the muscle to handle large implements with ease.

The pressure and flow compensated hydraulic system – with load sensing – delivers up to 30 gpm (113 lpm) of hydraulic flow, so you can take on tough jobs in a hurry.

Lift two 5' x 6' bales, load a trailer or truck in no time, and dig deep into compacted feed bunks with up to 4,523 pounds (2056 kg) and 2,900 psi of front-end capacity. And with a rear hitch-lift capacity up to 10,582 pounds (4799 kg) you can hook up to large implements without slowing down.

Easy, intuitive controls make loader chores a snap.



Get ready to flex some muscle

For many John Deere loaders, you can choose non-self-leveling or turn up the productivity with a mechanical-self-leveling option.



See more and do more with an optional loader view roof that will help you see your work up high and make you more efficient.



Convenient single-point hydraulic connections save time while eliminating connection error with virtually no oil loss. Plus, electrical connections are integrated in the single-point connection.

False rod bucket cylinders require a smaller displacement of oil on the head end of the cylinder allowing the cylinder to dump significantly faster than a normal cylinder. The result? Faster bucket dumping cycle times. (False rod bucket cylinders are only available on Mechanical Self-Leveling configurations.)

Concealed oil lines, routed through the boom arm and torque tube, protect the hydraulic system and give the loader a more attractive appearance.

Cast steel components add strength and durability.



LOADER COMPATIBILITY CHART - UTILITY TRACTORS

TRACTOR MODELS	620R NSL	620R MSL	640R NSL	640R MSL	H360 NSL	H360 MSL	H380
6M Series (Small Chassis)							
6110M, 6120M, and 6130M	2WD	X	X	X ¹³			
6110M, 6120M, and 6130M	MFWD	X	X	X ¹³	X ¹³		
6M Series (Mid Chassis)							
6145M and 6155M	2WD		X	X			
6145M and 6155M	MFWD		X	X			
6M Series (Large Chassis)							
6175M and 6195M	2WD				X	X	X
6175M and 6195M	MFWD				X	X	X

NOTES: Loaders are not compatible with high clearance, high crop, mudder, or track tractors. For complete tire and fender compatibility, as well as ballasting requirements, refer to the Ag Sales Manual and/or Loader Operators Manual.
 13 - 640R loader requires the Cylinder Stop Kit for optimum performance with 6110R/M, 6120R/M, and 6130R/M tractors. For loader reedy tractors, order code 1996 to receive the kit, for field installation of the loader, the cylinder stop kit is included in mounting frame code 1621.

6M Series Specifications 6110M | 6120M | 6130M

	6110M	6120M	6130M
POWER * estimated			
Rated PTO power (hp SAE) at rated engine speed (2100 rpm)	86 hp (64 kW)	95 hp (71 kW)	102 hp (76 kW)
Rated Engine power hp (hp ISO) at 2100 engine rpm (97/68EC)*	110 hp (81 kW)	120 hp (88 kW)	130 hp (96 kW)
Max Engine power hp (hp ISO) at 1900 engine rpm (97/68EC)*	116 hp (85 kW)	127 hp (93 kW)	137 hp (101 kW)
ENGINE			
Manufacturer	John Deere PowerTech™ PSS (B20 Diesel Compatible)		
Rated Speed	2100 rpm		
Type	Diesel, in-line, 4-cylinder, wet-sleeve cylinder liners with 4 valves-in-head		
Aspiration (US EPA Final Tier4/Stage IV)	Dual Series Turbocharger w/fixed geometry first stage-variable geometry second stage - air-to-air aftercooling and cooled exhaust gas recirculation		
Filter, engine air	PowerCore G2 Air Filter with Pre-cleaning		
After treatment type	Cooled exhaust gas recirculation (EGR), Diesel Particle Filter (DPF) with Diesel Oxidation Catalyst (DOC) and Selective Catalytic Reduction (SCR) using DEF		
Displacement	4 / 4.5 L		
TRANSMISSION			
12F/4R SyncroPlus™ transmission 30K (OOS Only)	x	x	x
16 Speed PowrQuad Transmission 30K (OOS Only)	x	x	x
24 Speed PowrQuad Transmission 40K (OOS Only)	x	x	x
16 Speed PowrQuad PLUS™ Transmission 30K (Cab Only)	x	x	x
24 Speed PowrQuad PLUS Transmission 40K (Cab Only)	x	x	x
24 Speed AutoQuad PLUS Transmission 40K (Cab Only)	x	x	x
ELECTRICAL SYSTEM			
Alternator/Battery	14V, 12o amps (14V, 200 amp Optional on cab only)/12V		
REAR AXLES AND WHEEL EQUIPMENT			
	Group 45/46	Group 45/46	Group 45/46
Flanged axle, 2-position fixed steel wheels	Option	Option	Option
Flanged axle, 8-position adjustable steel wheels	Base	Base	Base
79.45 x 2555 mm (3.1 In. x 100.6 In.) with 2-Position Fixed Cast Wheels	Option	Option	Option
79.45 x 2555 mm (3.1 In. x 100.6 In.) with 2-Position Fixed Steel Wheels	Option	Option	Option
FRONT AXLES			
2WD – tread range 60.4 to 80.4 in. (1534 to 2042 mm)	Option	Option	Option
MFWD - Fixed rims	Option	Option	Option
MFWD - Adjustable rims	Base	Base	Base
HYDRAULIC SYSTEM			
Selective control valves (rear/mid)	Pressure Compensated (PC) / Pressure & Flow Compensated (PFC) System with Load Sensing Function (with PFC) up to 3 rear mechanical or 3 with powerbeyond / 3 mid mount mechanical		
Main pump, axial piston (displacement)	35cc 45cc		
Maximum pressure	2,900 psi (20,000 kPa)		
Rated flow	21.1 U.S. GPM (80 L/min) or PFC of 30 gpm (114 L/min)		
Available flow at a single SCV	21.1 U.S. gpm/80 lpm		
Take out oil capacity without/with additional tank	6.6/9.8 gal. (25/37 liters)		
3-POINT HITCH (rear) - Electrohydraulic Sensing			
	Category 2/3N		
Lift Capacities - Standard	5,582 lb. (2500 kg)	5,582 lb. (2500 kg)	6,474 lb. (2900 kg)
Lift Capacities - Optional	7,431 lb. (3400 kg)	7,431 lb. (3400 kg)	8,456 lb. (3800 kg)
DRAWBAR			
	Cat 2 1400 kg (3085 lb.) - 2450 kg (5400 lb.) Maximum Vertical Load dependent on drawbar position - Standard		
PTO			
	Independent 1-3/8 in., 540/1000 reversible shaft		
PTO Speed @ Engine RPM	540 rpm @ 1932 engine rpm 1000 rpm @ 1932 engine rpm		
Front Hitch and PTO	NA	NA	NA
CAPACITIES			
Fuel Tank, Standard	51 gal. (195L)	51 gal. (195L)	51 gal. (195L)
DEF Tank	3.4 gal. (13L)	3.4 gal. (13L)	3.4 gal. (13L)
Cooling System	5.8 gal. (22L)	5.8 gal. (22L)	5.8 gal. (22L)
WHEELBASE			
2WD	101.6 in. (2580 mm)	101.6 in. (2580 mm)	101.6 in. (2580 mm)
MFWD	101.6 in. (2580 mm)	101.6 in. (2580 mm)	101.6 in. (2580 mm)
MFWD axle ground clearance with standard MFWD tyres	20.47 in. (520 mm)	20.47 in. (520 mm)	20.47 in. (520 mm)
AVERAGE STANDARD WEIGHT less front weights			
MFWD/AQ Plus/TLS/drawbar/base weight	11,040 lbs. (5,007 kg)	11486 lbs. (5210 kg)	11519 lbs. (5225 kg)
Max Ballast Level			
	Maximum recommended ballast is 163 lbs./SAE PTO HP -see OM for specific ballast instructions		
Max Payload Capacity	19,069 lbs. (8650 kg)	20,172 lbs. (9150 kg)	20,172 lbs. (9150 kg)

* 97/68/EC power refers to average (50% MOE) net brake power measured and corrected for ambient conditions according to the EC emissions directive. It is equivalent to internal Deere Standard RES10080, and SAE Standards J1349, J1995. Nominal data is metric. Standard data is converted from metric data. Use metric for all calculations

	6145M	6155M
POWER * estimated		
Rated PTO power (hp SAE) at rated engine speed (2100 rpm)	114 hp (85 kW)	123 hp (91 kW)
Rated Engine power hp (hp ISO) at 2100 engine rpm (97/68EC)*	145 hp (107 kW)	155 hp (114 kW)
Max Engine power hp (hp ISO) at 1900 engine rpm (97/68EC)*	153 hp (113 kW)	164 hp (120 kW)
ENGINE		
Manufacturer	John Deere PowerTech™ PSS (B20 Diesel Compatible)	John Deere PowerTech™ PVS (B20 Diesel Compatible)
Rated Speed	2100 rpm	
Type	Diesel, in-line, 4-cylinder, wet-sleeve cylinder liners with 4 valves-in-head	Diesel, in-line, 6-cylinder, wet-sleeve cylinder liners with 4 valves-in-head
Aspiration (US EPA Final Tier4/Stage IV)	Dual Series Turbocharger w/fixed geometry first stage-variable geometry second stage - air-to-air aftercooling and cooled exhaust gas recirculation	Variable Geometry Turbocharger second stage - air-to-air aftercooling and cooled exhaust gas recirculation
Filter, engine air	PowerCore G2 Air Filter with Pre-cleaning	
After treatment type	Cooled exhaust gas recirculation (EGR), Diesel Particle Filter (DPF) with Diesel Oxidation Catalyst (DOC) and Selective Catalytic Reduction (SCR) using DEF	
Displacement	4 / 4.5 L	6 / 6.8 L
TRANSMISSION		
16 Speed PowrQuad Transmission 30K (OOS Only)	x	x
20 Speed PowrQuad Transmission 40K (OOS Only)	N/A	x
24 Speed PowrQuad Transmission 40K (OOS Only)	x	N/A
16 Speed PowrQuad PLUS™ Transmission 30K (Cab Only)	x	x
20 Speed PowrQuad PLUS Transmission 40K (Cab Only)	N/A	x
24 Speed PowrQuad PLUS Transmission 40K (Cab Only)	x	N/A
20 Speed AutoQuad PLUS™ Transmission 40K (Cab Only)	N/A	x
24 Speed AutoQuad PLUS Transmission 40K (Cab Only)	x	N/A
ELECTRICAL SYSTEM		
Alternator/Battery	14V, 120 amps (14V, 200 amp Optional)/12V	
REAR AXLES AND WHEEL EQUIPMENT		
	Group 46/47	Group 46/47
Flanged axle, 8 position adjustable steel wheels	Base	Base
86 x 2550 mm (3.385 x 100.4 in.) with 2-Position Fixed Cast Wheels	Option	Option
FRONT AXLES		
2WD – tread range 60.4 to 80.4 in. (1534 to 2042 mm)	Option	N/A
2WD – tread range 63.3 to 87.4 in. (1610 to 2220 mm)	N/A	Option
MFWD - Adjustable rims	Base	Base
HYDRAULIC SYSTEM		
Selective control valves (rear/mid)	Pressure Compensated (PC) / Pressure & Flow Compensated (PFC) System with Load Sensing Function (option) up to 3 rear mechanical or 3 with powerbeyond / 3 mid mount mechanical	Pressure & Flow Compensated (PFC) System with Load Sensing Function
Main pump, axial piston (displacement)	35cc	45cc
Maximum pressure	2,900 psi (20,000 kPa)	
Rated flow	21.1 U.S. gpm (80 L/min)	30 U.S. gpm (114 L/min)
Available flow at a single SCV	21.1 U.S. gpm/80 lpm	26.4 U.S. gpm (100 L/min)
Take out oil capacity without/with additional tank	6.6/9.8 gal. (25/37 liters)	9.2/12.4 gal. (35/47 liters)
3-POINT HITCH (rear) - Electrohydraulic Sensing		
Lift Capacities - Standard	8,456 lb. (3800 kg)	8,198 lb. (3700 kg)
Lift Capacities - Optional	9,546 lb. (4300 kg)	9,193 lb. (4200 kg)
DRAWBAR		
	Cat 2 1400 kg (3085 lb.) - 2450 kg (5400 lb.) Maximum Vertical Load dependent on drawbar position - Standard	
PTO		
PTO Speed @ Engine RPM	Independent 1-3/8 in., 540/1000 reversible shaft	
Front Hitch and PTO	540 rpm @ 1932 engine rpm 1000 rpm @ 1932 engine rpm	
Front Hitch and PTO	NA	NA
CAPACITIES		
Fuel Tank, Standard	70 gal. (265L)	71 gal. (270L)
DEF Tank	4 gal. (16L)	4 gal. (16L)
Cooling System	7 gal. (27L)	7.4 gal. (28.2L)
WHEELBASE		
2WD	108.9 in. (2765 mm)	108.9 in. (2765 mm)
MFWD	108.9 in. (2765 mm)	108.9 in. (2765 mm)
MFWD axle ground clearance with standard MFWD tyres	20.47 in. (520 mm)	20.47 in. (520 mm)
AVERAGE STANDARD WEIGHT less front weights		
MFWD/AQ Plus/TLS/drawbar/base weight	12,200 lbs. (5534 kg.)	13,073 lbs (5930 kg)
Max Ballast Level		
Max Payload Capacity	22,046 lbs. (10000 kg)	24,250 lbs. (11000 kg)

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	6175M	6195M
POWER * estimated		
Rated PTO power (hp SAE) at rated engine speed (2100 rpm)	142 hp (106 kW)	158 hp (117 kW)
Rated Engine power hp (hp ISO) at 2100 engine rpm (97/68EC)*	175 hp (129 kW)	195 hp (145 kW)
Max Engine power hp (hp ISO) at 1900 engine rpm (97/68EC)*	185 hp (136 kW)	206 hp (151 kW)
ENGINE		
Manufacturer	John Deere PowerTech™ PVS (B20 Diesel Compatible)	John Deere PowerTech™ PSS (B20 Diesel Compatible)
Rated Speed	2100 rpm	
Type	Diesel, in-line, 6-cylinder, wet-sleeve cylinder liners with 4 valves-in-head	
Aspiration	Variable Geometry Turbocharger second stage - air-to-air aftercooling and cooled exhaust gas recirculation	Dual Series Turbocharger w/fixed geometry first stage-variable geometry second stage - air-to-air aftercooling and cooled exhaust gas recirculation
Filter, engine air	PowerCore G2 Air Filter with Pre-cleaning	
After treatment type	Cooled exhaust gas recirculation (EGR), Diesel Particle Filter (DPF) with Diesel Oxidation Catalyst (DOC) and Selective Catalytic Reduction (SCR) using DEF	
Displacement	6 / 6.8 L	
TRANSMISSION		
16 Speed PowrQuad PLUS™ Transmission 30K (Cab Only)	x	x
20 Speed PowrQuad PLUS Transmission 40K (Cab Only)	x	x
20 Speed AutoQuad PLUS™ Transmission 40K (Cab Only)	x	x
20 Speed CommandQuad PLUS™ Transmission 40K (Cab Only)	x	x
ELECTRICAL SYSTEM		
Alternator/Battery	14V, 120 amps (14V, 200 amp Optional)/12V	
REAR AXLES AND WHEEL EQUIPMENT		
92 x 2550 mm (3.622 x 100.4 in.) with 2-Position Fixed Cast Wheels	Group 46/47 Base	Group 46/47 Base
FRONT AXLES		
2WD – tread range 63.3 to 87.4 in. (1610 to 2220 mm)	Option	Option
MFWD - Adjustable rims	Base	Base
HYDRAULIC SYSTEM		
Selective control valves (rear/mid)	Pressure & Flow Compensated (PFC) System with Load Sensing Function	
Main pump, axial piston (displacement)	45cc	
Maximum pressure	2,900 psi (20,000 kPa)	
Rated flow	30 U.S. gpm (114 L/min)	
Available flow at a single SCV	26.4 U.S. gpm (100 L/min)	
Take out oil capacity without/with additional tank	9.2/12.4 gal. (35/47 liters)	
3-POINT HITCH (rear) - Electrohydraulic Sensing		
Lift Capacities - Standard	10,696 lb. (4850 kg)	10,696 lb. (4850 kg)
Lift Capacities - Optional	n/a	n/a
DRAWBAR		
	Cat 2 1400 kg (3085 lb.) - 2450 kg (5400 lb.) Maximum Vertical Load dependent on drawbar position - Standard	
PTO		
PTO Speed @ Engine RPM	Independent 1-3/8 in., 540/1000 reversible shaft 540 rpm @ 1932 engine rpm 1000 rpm @ 1932 engine rpm	
Front Hitch and PTO	Option	Option
CAPACITIES		
Fuel Tank, Standard	85 gal. (325L)	85 gal. (325L)
DEF Tank	5 gal. (20L)	5 gal. (20L)
Cooling System	6 gal. (23.2L)	6 gal. (23.2L)
WHEELBASE		
2WD	110.2 in. (2800 mm)	110.2 in. (2800 mm)
MFWD	110.2 in. (2800 mm)	110.2 in. (2800 mm)
MFWD axle ground clearance with standard MFWD tyres	20.47 in. (520 mm)	20.47 in. (520 mm)
AVERAGE STANDARD WEIGHT less front weights		
MFWD/AQ Plus/TLS/drawbar/base weight	15,664 lbs. (7105 kg)	15,664 lbs. (7105 kg)
Max Ballast Level		
Max Payload Capacity	27,116 lbs. (12300 kg)	27,116 lbs. (12300 kg)

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