

# 6M Specifications

Status: 2013-04-08

n.a. - not available  
tbd - to be defined



ENGINE PERFORMANCE		Unit	6115M	6125M	6130M	6140M	6150M	6170M
<b>97/68EC (without fan)</b>								
Rated power (97/68EC)	[hp]		115	125	130	140	150	170
	[kW]		85	92	96	103	110	125
Maximum power (97/68EC)	[hp]		121	132	136	147	158	175
	[kW]		89	97	100	108	116	129
<b>ECE-R24 (with viscous fan drive)</b>								
Rated power (ECE-R24)	[hp]		110	118	126	135	144	165
	[kW]		81	87	93	99	106	121
Maximum power (ECE-R24)	[hp]		117	126	133	143	152	170
	[kW]		86	93	98	105	112	125
<b>PTO horsepower</b>								
PTO horsepower at rated speed	[hp]		96	103	111	116	124	143
	[kW]		71	76	81	85	91	106

ENGINE SPECIFICATIONS		Unit	6115M	6125M	6130M	6140M	6150M	6170M	
Constant Power Range	[rpm]		2100-1600						
Torque Rise	%		35%			37%	35%		
Max. torque (1500 U/min)	[Nm]		519	564	587	640 (1400)	677	768	
Rated Speed	[rpm]		2100						
Engine Type			PVX						
Aspiration			Variable Geometry Turbocharger with Intercooler and externally cooled Exhaust Gas						
Cylinders and displacement	[cm <sup>3</sup> ]		4/4.5L			6/6.8L			
Number of Valves Per Cylinder			4						
Cooling System and Fan Drive			Cooling system with Temperature Controlled Viscous Fan Drive						
Fuel Injection System & Control			High Pressure CommonRail System with up to 2000 bar Injection Pressure						
After Treatment Type			Diesel Oxidation Catalyst (DOC) and diesel Particulate Exhaust Filter (DPF)						
Air Cleaner Type			PowerCore G2 Air Filter with Pre-Cleaning						
Bore & Stroke	[mm]		106.5/127mm						
Compression ratio			16.1:1			16.5:1			

TRANSMISSION OPTIONS		Unit	6115M	6125M	6130M	6140M	6150M	6170M
<b>PowrReverser</b>								
16/16 1.8-30km/h			X	X	X	-	-	-
<b>PowrQuad Plus</b>								
16/16 - 2.4-30 km/h			X	X	X	X	-	-
16/16-3.2-40 km/h			X	X	-	-	-	-
20/20 -2.5-40 km/h			-	-	-	-	X	X
24/24 - 1.4 - 40 km/h			X	X	X	X	-	-
<b>AutoQuad Plus</b>								
20/20 - 2.5-40 km/h			-	-	-	-	X	X
24/24 - 1.5-40km/h			X	X	X	X	-	-
<b>AutoQuad Plus ECO</b>								
20/20 - 2.5-40 km/h EcoShift			-	-	-	-	X	X
24/24 - 1.4-40 km/h EcoShift			X	X	X	X	-	-
<b>Creep option</b>								
Creep (PowrReverser, PowrQuad, PowrQuad Plus, AutoQuad Plus, AutoQuad Plus EcoShift)			X	X	X	X	X	

TRANSMISSION SPECIFICATIONS		Unit	6115M	6125M	6130M	6140M	6150M	6170M
<b>Engine rpm at full speed*</b>								
<b>PowrReverser</b>								
16/16 1.8-30km/h	[rpm]		tbd	tbd	tbd	tbd	tbd	tbd
<b>PowrQuad Plus</b>								
16/16 - 2.4-30 km/h	[rpm]		tbd	tbd	tbd	tbd	tbd	tbd
16/16-3.2-40 km/h	[rpm]		tbd	tbd	tbd	tbd	tbd	tbd
20/20 -2.5-40 km/h	[rpm]		-	-	-	-	1,937	1,901
24/24 - 1.4 - 40 km/h	[rpm]		2,142	2,142	2,239	2,239	-	-
<b>AutoQuad Plus</b>								
20/20 - 2.5-40 km/h	[rpm]		-	-	-	-	1,937	1,901
24/24 - 1.5-40km/h	[rpm]		2,142	2,142	2,239	2,239	-	-
<b>AutoQuad Plus ECO</b>								
20/20 - 2.5-40 km/h EcoShift	[rpm]		-	-	-	-	1499	1504
24/24 - 1.4-40 km/h EcoShift	[rpm]		1694	1694	1685	1685	-	-

\* Engine rpm under full speed (with maximum tire size) is a theoretical value that depends on various parameters, such as tire wear, tire pressure, load at the engine.

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FRONT AXLE	Unit	6115M	6125M	6130M	6140M	6150M	6170M
Manufacturer		Dana					
Width (Flange to Flange)	[mm]	1680	1680	1780	1780	1780	1780
Overall width (Standard/TLS Plus)	[mm]	tbd	tbd	tbd	tbd	tbd	tbd
Overall width (TLS Plus with brakes)	[mm]	tbd	tbd	tbd	tbd	tbd	tbd
Bolt Circle Diameter	[mm]	275	275	275	275	335	335
Flange Diameter	[mm]						
Studs, number		8	8	8	8	10	10
Studs, Diameter	[mm]	18	18	18	18	20	20
Design Rigid MFWD		Mechanically front wheel drive					
Oscillation Angle	[°]	11					
Caster Angle	[°]	tbd	tbd	tbd	tbd	tbd	tbd
Steering Angle	[°]	tbd	tbd	tbd	tbd	tbd	tbd
Differential Lock		Limited Slip					
Final Drive Type		Planetary Gear Reduction					
Design Suspended MFWD (Option)		Triple Link Suspension (TLS) MFWD axle, Hydro-pneumatic, permanently active, triple link, self levelling suspension					
Oscillation Angle	[°]	11					9
Caster Angle	[°]	12					
Steering Angle	[°]	52					
Differential Lock		Limited slip					
Final Drive Type		Planetary Gear Reduction					
Suspension system		100 mm suspension range					
Front Axle Brakes (option)		Increased braking capacity utilising additional brakes in the axle hubs					

REAR AXLE	Unit	6115M	6125M	6130M	6140M	6150M	6170M
Manufacturer		John Deere					
Design - Flange Type		Flanged type rear axle					
Final Drive Type		3 Planetary gear reduction					
Differential Lock		100% electronic multi disc oil cooled design					
Lubrication		Pressure lubrication with dry sump design					
Bolt Circle Diameter	[mm]	203.3			275		
Width (Flange to Flange)	[mm]	1552			1664		
Studs (6170M)/bolts, number					8		
Studs (6170M)/bolts, Diameter	[mm]				18		
<i>For further information (Tread setting chart) on tread width please see additional document in the online Sales Manual.</i>							

STEERING AND BRAKES	Unit	6115M	6125M	6130M	6140M	6150M	6170M
Steering							
Type		Dynamic Load Sensing, Hydrostatic, Flow Metering					
Brakes							
Primary Brake (Footbrake)		Oil-cooled, self-equalizing, self-adjusting, hydraulically actuated					
Secondary Brake		Hydraulically actuated, integrated into primary brake (lever left hand side of operator seat)					
Park Lock		Mechanical Transmission Park Lock					
MFWD Braking		Automatic MFWD engagement (MFWD engaged for braking at speeds >5km/h)					
Front Axle Brakes (optional)		TLS with front axle brakes					
Auxiliary brakes (optional)							
Hydraulic trailer brakes		Optional Equipment					
Pneumatic trailer brakes		1 and 2 line system; park brake actuation engages trailer brakes automatically; comes with air dryer					

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HYDRAULIC SYSTEM		Unit	6115M	6125M	6130M	6140M	6150M	6170M
System Type			Pressure Compensated (PC) / Pressure & Flow Compensated (PFC) System with Load Sensing function				Pressure & Flow Compensated (PFC) System with Load	
System pressure - maximum	[bar]		200					
System pressure - standby	[bar]		30					
Base pump	[cc]		35				45	
Base pump - delivery rate per minute at rated speed	[l]		80				114	
Optional pump	[cc]		45					
Optional pump - delivery rate per minute at rated speed	[l]		114					
Maximum No. of SCV's			4 Rear/ 3 Mid					
Auxiliary Hydraulic Features			Power Beyond					

HYDRAULICS - SELECTIVE CONTROL VALVES		Unit	6115M	6125M	6130M	6140M	6150M	6170M
Type								
Versions								
100 Series			X	X	X	X	X	X
200 Series			X	X	X	X	X	X
450 Series			X	X	X	X	X	X
Oil Throughput at valve (depending on hydraulic pump)								
SCV 100	[l/min]		60					
SCV 200	[l/min]		100					
SCV 450	[l/min]		100					

HYDRAULICS - OIL FOR EXTERNAL USE		Unit	6115M	6125M	6130M	6140M	6150M	6170M
Max. oil withdrawal - Horizontal position, stationary								
at max. mark	[l]		15	15	15	15	20	20
at max. mark with additional tank	[l]		27	27	27	27	32	32
Max. oil withdrawal - up to 3° angle, up to 3 km/h								
at max. mark	[l]		15	15	15	15	20	20
at max. mark with additional tank	[l]		15	15	15	15	20	20
Withdrawal - with overfill*								
overfill	[l]		15	15	15	15	15	15
(Stationary) oil take out with overfill	[l]		25	25	25	25	35	35
(Stationary) oil take out with overfill with additional tank	[l]		37	37	37	37	47	47

ELECTRICAL SYSTEM		Unit	6115M	6125M	6130M	6140M	6150M	6170M
Alternator Size	[A]		14V 90/120/150/200A					
Battery Size (Min)	[Ah]		12V 110 AH			12V 154 AH		
Battery Size (Max)	[Ah]		12V174 Ah					

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3 POINT HITCH - REAR		Unit	6115M	6125M	6130M	6140M	6150M	6170M
Category			II/IIIN	II/IIIN	IIIN	IIIN	IIIN	III
Lift Cylinder - Diameter Base	[mm]		75		80	85	80	80
Lift Cylinder - Diameter Option	[mm]		85		90	90	85	85
Lower Link Type			Ball type/hook type		Hook type			
Control Type			Linear type in cab control and fender mounted remote controls					
Control Modes			Height limit, working depth limit, rate of raise & drop, quick raise/lower, quick pull-in					
Sensing Type			electronic lower link					
Sensing Modes			Load and depth control, inter-mix, float					
Control Valve			Electronic Stepper Motor					
Hitch Dampening			Auto Hitch Dampening when control is in transport position					
Lateral Sway Control								
Version 1			Sway Blocks					
Version 2			Standard Fixed Stabilizer Bar with distance positioner					
Version 3			Automatic sway stabilizer with distance positioner					

3 POINT HITCH - REAR - LIFT CAPACITY		Unit	6115M	6125M	6130M	6140M	6150M	6170M
Lift Capacity through full lift range								
Lower Links (Base/Option)	[kg]		2700/3400	3000/3800	3400/3800	5200/5800	4300/5400	
OECD - 610mm behind hitching point w/ OECD Frame (Base/Option)	[kg]		2300/3000	2700/3400	3000/3400	4100/4600	3800/4800	
OECD - 1800mm behind hitching point w/ OECD Frame (Base/Option)	[kg]		1800/2300	2100/2600	2300/2600	2500/2800	2600/3300	
Maximum Lift Capacity								
Lower Links (Base/Option)	[kg]		4900/6300	5600/7100	6300/7100	6500/7400	7000/8900	

3 POINT HITCH - FRONT		Unit	6115M	6125M	6130M	6140M	6150M	6170M
Type			IIIN/4000kg					
Category / Maximum Lift Capacity at hooks			2 hydraulic couplers via T-fitting at 2nd rear SCV and line routing to the front					
Hydraulic Power (optional)			7 pin electric socket					
Electric Power								

3 POINT HITCH - FRONT - LIFT CAPACITY		Unit	6115M	6125M	6130M	6140M	6150M	6170M
Lift Capacity through full lift range								
Lower Links	[kg]					3,300		
OECD - 610mm in front of hitching point w/ OECD	[kg]					2,550		
Maximum Lift Capacity								
Lower Links	[kg]					4,000		
OECD - 610mm in front of hitching point w/ OECD	[kg]					3,200		

REAR PTO		Unit	6115M	6125M	6130M	6140M	6150M	6170M
Clutch Type			Electro-hydraulically operated, oil cooled, multi-disc design					
Control Type			In cab Switch and external fender mounted remote control					
Shifting Design			In cab, Electro-Magnetically Shifted Speeds					
Stub Shaft								
Shaft Diameter	[mm]		38					
Splines			6 & 21					
Distance PTO Shaft Coupling points lower links								
lower link horizontal	[mm]		tbd	tbd	tbd	tbd	tbd	tbd
with Category			tbd	tbd	tbd	tbd	tbd	tbd
Design								
540 / 540E / 1000			X	X	X	X	X	X
540 / 1000			X	X	X	X		
Engine at rated PTO speeds (540/540E/1000 rear PTO)	[rpm]		1932/1575/1932					

FRONT PTO		Unit	6115M	6125M	6130M	6140M	6150M	6170M
Type			Electro-hydraulically operated, oil cooled					
max. power transferred by front PTO	[kW]		80					
engine at PTO Speed (1000)	[rpm]		1,995					

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CAB	Unit	6115M	6125M	6130M	6140M	6150M	6170M
Type		Tiltable Cab					
Sound Reduction/Level	[dB]	71				72	
Angle of Vision	[°]	310 degree all round vision					
Display		Integrated into dashboard					
Display functionality		Performance Monitor, Several Settings can be adjusted					
Radio		Radio Available ex factory					
Speakers antenna installation		Available					
Glass area - without Roof Hatch and Panorama roof	[m <sup>2</sup> ]	4.79					

CAPACITIES	Unit	6115M	6125M	6130M	6140M	6150M	6170M
Fuel tank capacity	[l]	220	220	330	330	350	400
Engine oil	[l]	16			23.5		
Cooling system	[l]	22		27.4		28.2	
Transmission / Hydraulic System without oil withdrawal							
PowrQuad Plus / AutoQuad Plus	[l]	52				60	
Transmission / Hydraulic system with oil withdrawal							
PowrQuad Plus / AutoQuad Plus	[l]	52					
Additional system oil with other options							
extra with creeper transmission	[l]					1	
extra with front-wheel drive	[l]					3	
extra with TLS axle	[l]					3	
Front PTO	[l]					3	
axle housing	[l]					8.2	
final drives (without brake)	[l]					1.7	
final drives (with brake)	[l]					2.6	

WEIGHTS	Unit	6115M	6125M	6130M	6140M	6150M	6170M
Weight*	[kg]	5210	5225	5514	5534	5930	7105
with front tyre		540/65 R24 (134)		540/65 R28 (144)		600/65 R28 (152)	
with rear tyre		600/65 R38 (178)		650/65 R38 (185)		710/70 R38 (200)	
<i>* AutoQuad Plus, TLS Plus, 2 SCVs, passenger seat, front fenders, 110kg base weight, PTO 100/540E/540, drawbar,</i>							
Weight Distribution*							
Front Axle	[kg]	tbd	tbd	tbd	tbd	tbd	tbd
Rear Axle	[kg]	tbd	tbd	tbd	tbd	tbd	tbd
<i>* weight with tires given below, TLS, AutoQuad Plus, base weight, base hydraulic pump, rear PTO, drawbar, 2 SCVs, no cab suspension, no trailer brake, no fuel</i>							

TURNING RADIUS	Unit	6115M	6125M	6130M	6140M	6150M	6170M
with MFWD*	[m]	tbd	tbd	tbd	tbd	tbd	tbd
without MFWD*	[m]	tbd	tbd	tbd	tbd	tbd	tbd
<i>*Turning Radius according to ISO789-3 measured for 600/65R30 at 2050mm tread setting for 1,6bar tire pressure</i>							

MAXIMUM PERMISSIBLE LOADS	Unit	6115M	6125M	6130M	6140M	6150M	6170M
MFWD Front Axle	[kg]	4200	4400	4400	4600	4800	5000
MFWD Front Axle (during loader application up to 10km/h)	[kg]	5580	5880	5880	6880	6880	7200
Rear Axle	[kg]	6800	6800	6800	7000	7800	8750
Maximum permissible weight	[kg]	8700	8700	9500	9800	10800	11300
Theoretical payload	[kg]	3490	3475	3986	4266	4870	4295

MAXIMUM STATIC VERTICAL LOADS	Unit	6115M	6125M	6130M	6140M	6150M	6170M
Type		CAT 2					
On Drawbar							
Road Use (250mm extended)	[kg]	1,600			1,800		1,800
Field Use (250mm extended)	[kg]	2,250			2,450		2,450
Field Use (350mm Extended)	[kg]	1,400			1,600		1,600
Field Use (400mm Extended)	[kg]	1,200			1,400		1,400
Wagon Hitch (vertical in hitch rail)	[kg]	2,000					
Pick-up Hitch	[kg]	3,000					
Piton Fix Hitch	[kg]	3,000					
Ball Type Hitch (horizontal insertion with 3-in-1 hitch)	[kg]	4,000					

SERVICEABILITY	Unit	6115M	6125M	6130M	6140M	6150M	6170M
Interval for engine oil change	[h]	500					
Interval for hydraulic oil change	[h]	1500					
DPF exchange interval	[h]	6000 hours or if required					

For available tires, dimensions, tread settings see further pages in the 6M online Sales Manual.