

5M SERIES

ONE FOR EVERYTHING



JOHN DEERE

NOTHING RUNS LIKE A DEERE

ONE FOR EVERYTHING





The 5M series is acclaimed for delivering extraordinary value. Its renowned performance characteristics, straightforward technology and unshakable reliability have made it our most popular model in the 75-100 hp segment. The current 5M's advanced controls and features make it more powerful and more efficient to operate than ever. The 5M – whatever you need doing, consider it done.

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DO EVERYTHING. BETTER.

OVERVIEW

While the 5M series has never stopped evolving, there is one thing we won't ever change: the unparalleled versatility of these tractors. No matter what you do, these tough, compact, front loader optimised tractors will go anywhere, pull anything and lift everything.

1 | POWER

Big displacement 4.5 l John Deere engine

2 | PERFORMANCE

Higher 4.4 t hitch capacity, increased 7.5 t payload, in a tighter 4.1 m turning radius

3 | HYDRAULICS

Powerful 70 l/min hydraulic flow, three independent SCVs and front hitch

4 | EASE OF USE

Straightforward mechanical transmission, de-clutch button in base and PowrReverser™ modulation

5 | ADAPTABLE

2WD or 4WD, reverser and Hi-Lo smooth speed adjustment and creeper mode

6 | VERSATILITY

John Deere M and R Series front loaders, joystick with GSS, front loader suspension and low hood

7 | RELIABILITY

Sturdy casting frame design for world-renowned reliability





With ample comfort and space, optimised ergonomics and excellent all-round visibility, the generous 5M cab sets a new standard in its class. The open station version* offers the same level of comfort and ergonomic perfection.

8 | COMFORT

Extra spacious cab, with new heated air-suspension seat, air conditioning and ample storage

9 | ERGONOMICS

More convenience than ever with updated controls and new sharp, bright instrument panel

10 | EASY-FIT

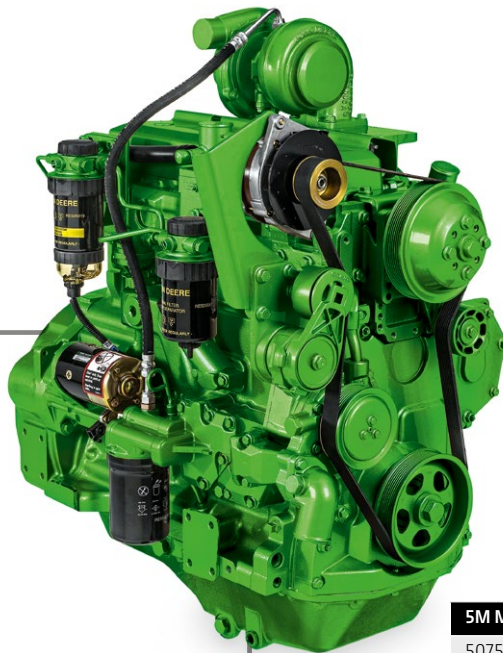
Available for every 5M: loader-ready package ex-works with mounting frames, hood protection, in-cab joystick and all internal connections

* only available for 5090M, 5100M and 5115M

HALF BODYBUILDER, HALF ACCOUNTANT

ENGINES

Think muscular low-end torque, excellent fuel economy, and full Stage V emission regulation compliance. 5M tractors have the brawn and the brains for getting things done. Our common rail high pressure fuel injection engines with active charge air cooler technology and electronic fan control ensure that you get all the performance, with less fuel and lower emissions.



POWERFUL CHOICES

Smart technology that fits our time. Choose between two engines and 4 levels of horsepower for every budget and performance requirement.

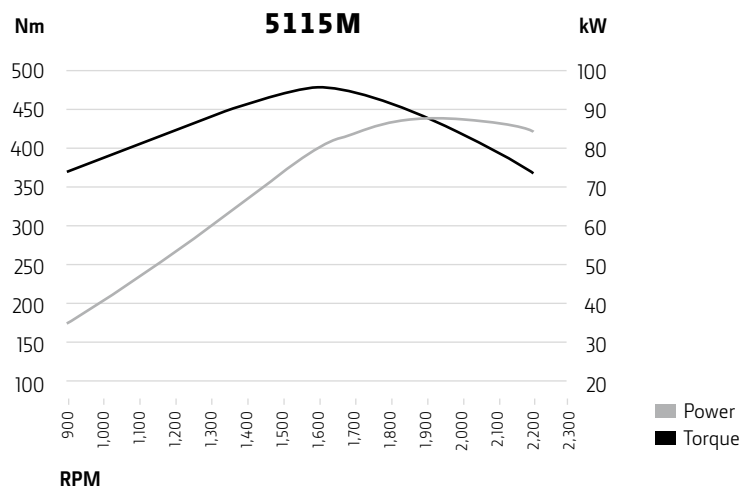
5M MODELS (MAX POWER 97/68/EC)

5075M	75 hp (55 kW)	3-cyl.
5090M	94 hp (69 kW)	4-cyl.
5100M	104 hp (77 kW)	4-cyl.
5115M	120 hp (88 kW)	4-cyl.



EXTRA POWER

5M 4 cyl. models provide an increased power bulge of 4% for higher elasticity, responsiveness and a wider range of power.



Affordable performance: the 5090M 4-cylinder model with 90 hp.



GIVE YOUR FEET A REST

Your legs and feet will appreciate our new gear lever with Hi-Lo and de-clutch functionality, which lets you change gears smoothly and effortlessly – with one hand.



CLUTCHLESS BACK-AND-FORTH

Frequent direction changes, e.g. in loader work, are easy with the practical PowrReverser™.

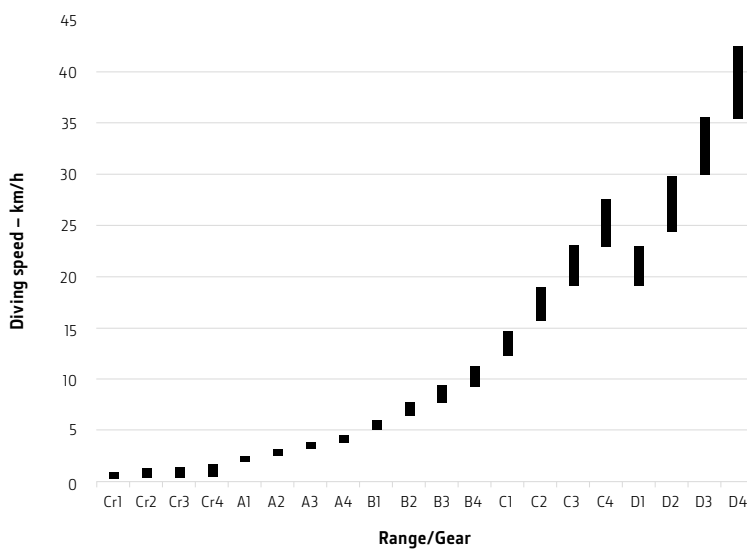


YOUR FARM, YOUR TRANSMISSION

TRANSMISSIONS

Choose between the entry level 16/16 PowrReverser™ transmission or our 32/12 PowrReverser™ transmission with Hi-Lo and modulation control, which lets you precisely adjust the speed of shuttle shifting modulation to match operator preferences and type of job. To top it off, there is MFWD (mechanical front-wheel drive).

Slow and thorough – Some tasks in vegetable fields or vineyards require you to go extra slow and steady. The 2 gear creeper option lets you work at speeds as low as 280 m/h. An integrated lock mechanism comes as standard.



ALL ABOUT YOU

COMFORT/CAB

When you climb into the 5M cab, it hits you right away: it feels big, and you get a phenomenal view of everything you're working with. There's room to get comfortable, glass all around for an unencumbered view, and controls laid out for intuitive, effortless and efficient tractor operation.



ESSENTIAL INFORMATION IN A NEW LIGHT

The information practically jumps out at you. Bright, crisp characters and graphics on a deep black background, for excellent readability.



It's not about luxury, it's about your health and productivity. Long days in the cab become a pleasure with the heated, air-suspended premium seat option.



For all the little things you need to have along, without cluttering your cab – a storage compartment under your seat comes as standard.



1 | RIGHT-HAND CONSOLE

Like an extension of your body. Ergonomic – everything within easy reach.

2 | INSTRUCTOR SEAT

Comfortable, foldable and out of the way when not needed.

3 | FRONT VISIBILITY

Enjoy an unobstructed view to the front through the sloping bonnet and corner post exhaust.

4 | FLOOR MAT

No need to stress over your dirty boots, these rugged mats are easy to clean.

5 | BRAND NEW GEAR LEVER

Smooth and effortless gear shifting with one hand – footless de-clutch functionality.

6 | LOADER JOYSTICK

This one does its name justice. Enjoy ergonomic, precision loader control for productivity champions.

7 | E-HAND THROTTLE

Very precise engine speed adjustment to quickly and accurately attain and control the desired speed.

8 | ELECTRO-HYDRAULIC PTO SWITCH

Fingertip control of PTO engagement and disengagement.

HYDRAULICS, HITCHES, PTO

POWERFULLY CONNECTED

A 70 l/min pump delivers enough power for up to three mid hydraulic controls and the rear SCVs. At an impressive rear hitch lift capacity of up to 4,400 kg, the 5M makes light work of heavy lifting.



Hook up whatever you need for the job. Built to handle even the heaviest of implements, the super robust rear hitch of the 5M has a maximum lift capacity of up to 4,440 kg (maximum lift capacity at hooks).

EASY CONTROL

Rear hitch and PTO control switches are located on the rear fender – easy to engage or disengage the PTO from outside. A safety system prevents unintended use of the PTO.





EASY ACCESS

Positioned for easy access between the rear hitch rails, the SCV stack groups together up to 3 rear SCVs.



The optional hydraulic trailer brake with 2 lines allows for transport speeds of up to 40 km/h with a trailer equipped with the new hydraulic trailer brake system, following the new regulation.

AT YOUR FINGERTIPS

Ergonomically laid out within easy reach for convenient, one hand operation, your hydraulic controls put you in effortless command.

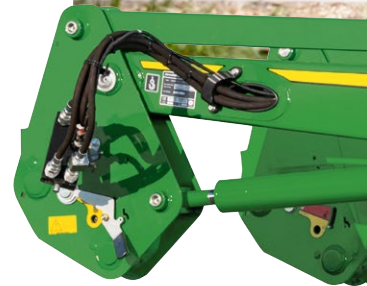


M SERIES LOADERS

LIGHT AND VERSATILE

This is the readily available and affordable all-you-need solution for all standard applications – straight from the factory or as a retrofit.

Light-weight with fast cycle times, M Series loaders feature mechanical self-levelling (MSL) and offer two independent functions plus a diverter for the 3rd function. They have the same mounting frame as our R Series loaders for full fleet compatibility.



SEE IT ALL

The design of the M Series is optimised for exceptional visibility when you connect your implements and of course during loader operation.

TIME SAVING

Connect and disconnect the loader in less than 5 minutes and change implements with just one easily accessible lever.

EASY MAINTENANCE

All bushings can be greased, the relevant ones can be replaced, and hydraulic hoses are protected inside the boom, with easy access to all main hydraulic parts if ever needed.

A SMOOTHER RIDE

The optional suspension provides an altogether smoother ride for load, tractor and operator.



**AFFORDABLE, FASTCYCLE
PRODUCTIVITY FOR ALL
YOUR JOBS**

TRACTOR/LOADER COMPATIBILITY

Two M Loader models are available for the 5M tractors.

	543M	603M
5075M, 5090M, 5100M, 5115M	■	■

R SERIES LOADERS

RAISE YOUR GAME

Designed for unrestrained productivity and peerless ease of use, these loaders withstand even the toughest conditions.

Easy to mount, quick to take off – it's the key to higher productivity. John Deere R Series front loaders have our automatic latch designs, making the installation of loader and implements as easy as click & go. Different self-levelling options are available for choice. The John Deere levelling link design makes more power available for lifting and never gets in the way of the operator's view.

**MORE LIFT CAPACITY
AND CONVENIENCE
TO GET MORE DONE**



TRACTOR/LOADER COMPATIBILITY

Two R Loader models are available for the 5M tractors.

	543R	603R
5075M, 5090M, 5100M, 5115M	■	■



UNDERSLUNG LEVELLING LINK

The geometry of our front loader linkage has several advantages. The underslung levelling link does not impair your view, conveys more power and provides easier access for servicing.



CLICK AND GO

Mounting our front loaders could not be quicker or more convenient thanks to the self-correcting floating system of the built-in automatic mast latch. Separation is just as easy.



AUTOMATIC IMPLEMENT LATCH

The implement is self-guided by centre guides and is automatically latched as soon as it reaches the carrier frame.

OPTIONAL R LOADER FEATURES

We have a range of optional solutions that help you access all the built-in benefits of your John Deere R Series front loader. They'll save you time, boost convenience and reduce operator fatigue.



EASY BUCKET UNLATCH

Nothing beats the convenience of hydraulic bucket unlatch with the cab mounted switch – all in a straightforward combination gas accumulator/oil pressure system.



LOADER LIGHTS

Purpose-built John Deere loader lights provide the consistent and reliable illumination that you need when working with a front loader in darkness or poor visibility.












LOADER SUSPENSION

Activated from the joystick, its effective damping provides an altogether smoother ride for load, tractor and operator.

WHICH LOADER?

The versatile and affordable M loaders are ideal for all standard front loader tasks such as collecting bales, feeding cattle and moving pallets.

If you need extra lift capacity, perform heavy-duty operations, or if you're looking for even better visibility, enhanced comfort and performance, our R Series loader will be best for you.

	M LOADER	R LOADER
 Lift capacity		
 Collect bales	✓	✓
 Feed cattle	✓	✓
 Move pallets	✓	✓
 Digging/heavy duty	–	✓
 Suspension	□	✓
 Lights	–	□

✓ base □ optional – not available

BUILT FOR BETTER ACCESS

EASY MAINTENANCE

Have you ever seen a car race pit stop? The crews literally take only seconds to handle essential tasks and get the car back on the track. The 5M is built like that: Service points can be reached from ground level, sight glasses are built into most fluid cases. Engine air, cab fresh air and recirculation filters can be inspected and changed without tools. Maintenance free bushings, bearings and drive shafts are everywhere.



Easy access to tractor maintenance points even with loader mounted.



PowerGard™ agreements protect you against unexpected repair costs and keep your maintenance on track with genuine parts. Three fixed rate packages provide increasingly comprehensive levels of cover to keep your machine running at peak performance with steady uptime.

POWERGARD™

STATUS: PROTECTED

When you protect your equipment with a PowerGard™ Protection plan*, your business has the steady machine uptime and nonstop peak performance it needs to thrive.



POWERGARD™ MAINTENANCE

Preventative maintenance work – it's essential for keeping equipment in good working order based on factory recommended intervals.**

POWERGARD™ PROTECTION

Base level of protection that covers unusual events that can lead to costly repairs, and also covers the main drive train components.

POWERGARD™ PROTECTION PLUS

The ultimate in protection – the total peace of mind package that covers all components included in PowerGard™ Protection, plus electrical, cooling, hydraulics and more.

FINANCING

Include your PowerGard™ Protection agreements into your financing offer and benefit from competitive rates, with flexible payments.**

* At participating dealers only. Requires a maintenance plan.

** PowerGard™ agreements and Financing for PowerGard™ Maintenance is currently only available with participating dealers. Country regulations apply.

SPECIFICATIONS

	5075M	5090M, 5100M, 5115M
ENGINE		
Manufacturer	John Deere PowerTech™ E	John Deere PowerTech™ E
No of. Cylinders /aspiration T=Turbo C= Intercooler	3/TC	4/TC
Displacement (cm³)	2,900	4,500
Valves per cylinder	2	4
Fuel tank capacity (l)	178 (OOS), 197 (Cab)	143 (OOS), 165 (Cab)
DEF tank capacity (l)	–	12
Biofuel capabilities	Yes	Yes
Cooling method	Water	Water
Emissions level	Stage V	Stage V
Service intervals (hours)	500	500
PERFORMANCE		
Max Power (97/68 EC), kW (PS)	55 (75)	69 (94), 77 (104), 88 (120)
Rated Power (97/68 EC), kW (PS)	55 (75)	66.6 (90) / 74 (100) / 85 (115)
Rated Speed (rpm)	2,200	2,200
Max. torque (Nm)	304	376 / 418 / 480
Max. torque @ engine speed (rpm)	1,600	1,600
Torque reverse in %	27	30
TRANSMISSION		
Std. transmission	16F / 16R or 32F / 16R PowrReverser™	16F / 16R or 32F / 16R PowrReverser™
Clutch	Wet clutch	Wet clutch
Max. transport speed (km/h)	40	40
Brakes type	Hydraulic Wet Disc	Hydraulic Wet Disc
Differential lock	Electro-hydraulically operated	Electro-hydraulically operated
PTO		
Clutch	Electro-hydraulic	Electro-hydraulic
Standard	540 / 540E or 540 / 540E / 1000	540 / 540E or 540 / 540E / 1000
HYDRAULICS		
System type	Open Center	Open Center
SCV control	Lever	Lever
Pump rated output		
steering (l/min)	24	24
standard (l/min)	70	70
Total (l/min)	94	94
Hydraulic pressure (bar)	200	200
Hitch lift capacity max. 610 behind.	3,062 kg	3,062 kg
Hitch lift capacity max.	4,441 kg at balls	4,441 kg at balls
Sensing type	Top link	Top link
SCV		
SCV rear (max)	3	3
SCV mid	2	2

	5075M	5090M, 5100M, 5115M
OPERATOR STATION		
Model availability (i=isolated)	Cab	Cab
Roll over protective structure oos	–	Yes
Platform – Flat/Straddel	–	Flat
Gearshift location	Left hand reverser with right hand gear shift	Left hand reverser with right hand gear shift
dB(A) rating	77	77
Seat suspension system	Mechanical or air suspension (option heater)	Mechanical or air suspension (option heater)
Worklight		
Front/rear	2 front/2 rear (4 front/4 rear optional)	2 front/2 rear (4 front/4 rear optional)
Beacon light	Optional	Optional
Rear wheel weights	Optional	Optional
One-piece hood	Yes	Yes
DIMENSIONS & WEIGHTS		
2WD availability	Yes	Only 5090M
4WD availability	Yes	Yes
2WD		
Wheelbase (mm)	2,350	2,350
front tread setting (mm)	1,488-2,070	1,488-2,070
Rear tread setting (mm)	1,660-1,907	1,660-1,907
Turning radius (m)	3.85	3.85
Min. overall width (mm)	1,725	1,725
Ground clearance front (mm)	480	480
Total height (mm)	2,590	2,590
Total height with folded roll-over frame (mm)	2,030	2,030
Shipping weight (kg)	3,700 (OOS), 3,900 (Cab)	3,700 (OOS), 3,900 (Cab)
Max. permissible weight (kg)	6,000	6,000
Tyres		
front	11L-15 F3	11L-15 F3
rear	420/85R30	420/85R30
4WD		
Wheelbase (mm)	2,350	2,350
Front tread setting (mm)	1,451-2,005	1,451-2,005
Rear tread setting (mm)	1,660-1,907	1,660-1,907
Turning radius without brakes (m)	4.1	4.1
Min. overall width (mm)	1,723	1,723
Ground clearance front (mm)	435	435
Total height (mm)	2,590	2,590
Total height with folded roll-over frame (mm)	–	2,030
Shipping weight (kg)	4,175 (Cab)	3,975 (OOS), 4,175 (Cab)
Max. permissible weight (kg)	7,500	7,500
Tyres		
front	320/85R24	320/85R24
rear	420/85R30	420/85R30

LOADER SPECIFICATIONS

5M				5075/5090/5100/5115M			
LOADER MODEL				543M		603M	
LEVELING SYSTEM				MSL		MSL	
Front tyre				575/13.6R24			
Rear tyre				750/16.9R34			
Wheelbase		(WB)	in / mm	92.5 / 2,350			
Pump capacity			gpm / lpm	19 / 70			
Rated pressure			psi / BAR	2,900 / 200			
LOADER							
Bucket				1,850 Standard Bucket			
Bucket weight			lb / kg	475	216	475	216
Lift capacity @ full height	Measured @ pivot	(U)	lb / kg	3,025	1,372	3,309	1,501
	Measured @ 800 mm ahead of pivot	(V)	lb / kg	3,199	1,451	3,600	1,633
Lift capacity @ 59 in (1.5 m) lift height	Measured @ pivot	(W)	lb / kg	3,327	1,509	3,732	1,693
	Measured @ 800 mm ahead of pivot	(X)	lb / kg	3,172	1,439	3,571	1,620
Boom breakout	Measured @ pivot	(Y)	lb / kg	3,799	1,723	4,248	1,927
	Measured @ 800 mm ahead of pivot	(Z)	lb / kg	3,219	1,460	3,726	1,690
Bucket rollback force	@ Maximum height	(VV)	lb / kg	3,448	1,564	3,823	1,734
	@ 59 in (1.5 m) Lift height	(XX)	lb / kg	6,038	2,739	6,400	2,903
	@ Ground level	(ZZ)	lb / kg	6,023	2,732	6,563	2,977
Maximum lift height		(A)	in / mm	145	3,680	148	3,753
Clearance	@ Full height – bucket level	(B)	in / mm	135	3,417	137	3,490
	@ Full height – bucket dumped	(C)	in / mm	104	2,647	107	2,722
Overall length		(WB+F)	in / mm	187	4,739	200	5,070
Digging depth		(H)	in / mm	-3	-75	-9	-235
Reach	@ Maximum height	(D)	in / mm	26	651	39	995
	@ Ground – bucket level	(F)	in / mm	98	2,489	109	2,770
Bucket angles	Dump angle @ full height	(E)	degrees	-60		-60	
	Rollback @ ground	(G)	degrees	48		49	
	Dump angle @ ground		degrees	-98		-98	
Cycle times @2,200 rpm	Loader raise		sec	6.0		3.8	
	Loader lower		sec	4.4		2.5	
	Bucket dump		sec	6.0		3.5	
	Bucket rollback		sec	7.5		4.2	

Actual specs may vary depending on tractor and loader equipment and configuration.

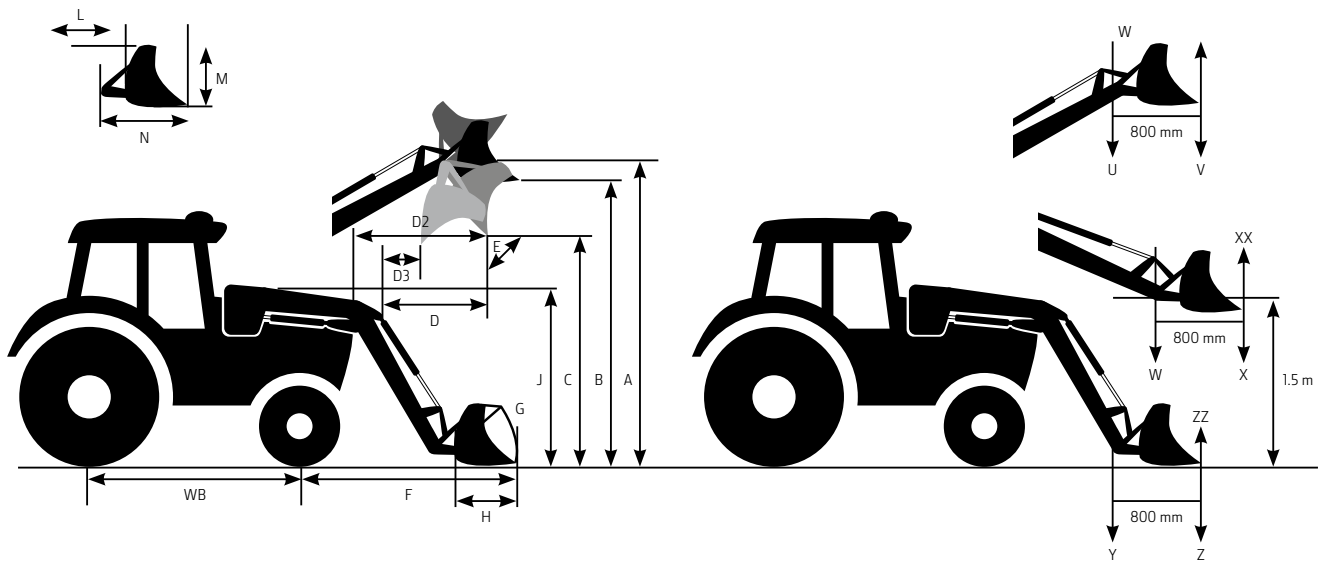


The American Society of Agricultural and Biological Engineers is an educational and scientific organization dedicated to the advancement of engineering applicable to agricultural, food, and biological systems. Founded in 1907 and headquartered in St. Joseph, Michigan, ASABE comprises 8,000 members in more than 100 countries.

5075/5090/5100/5115M

543R		603R	
	NSL	MSL	MSL
(WB)	575/13.6R24		
	750/16.9R34		
	92.5 / 2,350		
	19 / 70		
	2,900 / 200		

1,850 Heavy Duty										
	600		272		600		272		600	
(U)	4,542	2,060	3,739	1,696	4,780	2,168	3,957	1,795		
(V)	2,943	1,335	3,774	1,712	3,238	1,489	3,986	1,808		
(W)	4,872	2,210	4,597	2,085	5,265	2,388	4,879	2,213		
(X)	3,642	1,652	4,284	1,943	4,039	1,832	4,579	2,077		
(Y)	4,248	1,927	4,248	1,927	4,248	1,927	4,248	1,927		
(Z)	3,560	1,615	4,616	2,094	4,180	1,896	4,960	2,250		
(VV)	3,635	1,649	3,750	1,701	5,139	2,331	5,287	2,398		
(XX)	5,977	2,711	6,021	2,731	8,913	4,043	8,510	3,860		
(ZZ)	5,655	2,565	5,668	2,571	9,237	4,190	8,466	3,840		
(A)	145	3,680	145	3,681	148	3,760	148	3,762		
(B)	135	3,440	136	3,442	139	3,520	139	3,522		
(C)	105	2,676	105	2,678	108	2,750	108	2,751		
(WB+F)	183	4,651	183	4,650	196	4,988	196	4,988		
(H)	-4	-104	-4	-101	-9	-228	-9	-227		
(D)	31	798	31	795	42	1,070	42	1,069		
(F)	93	2,351	93	2,350	106	2,688	106	2,688		
(E)		-58		-58		-58		-54		
(G)		47		47		47		52		
		-151		-100		-100		-99		
		4.4		4.0		4.0		4.7		
		3.3		2.9		2.9		3.5		
		3.3		2.2		2.2		3.0		
		2.2		2.2		2.2		3.0		



NOTHING RUNS LIKE A DEERE™

Whether you need us for advice, to solve a problem, or for a part – reach out, we'll be there. And we've got you covered with PowerGard™ maintenance plans that keep your tractor running great, within your budget.



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