

# 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 Diesel only technology and unshakable reliability have made it our most popular model in the 75-100 hp segment. The new 5M introduces a brand-new array of controls and features that make it more powerful and more efficient to operate than ever. The new 5M. Whatever you need doing, consider it done.

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# DO EVERYTHING. BETTER.

## OVERVIEW

While you will appreciate the key improvements we are bringing to the 5M series, there is one thing we did not 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 Diesel Only John Deere engine with a new 90 hp model

### 2 | PERFORMANCE

Higher 4.4 t hitch capacity, increased 7.5 t payload, in a tighter 4.3 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

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

### 6 | VERSATILITY

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



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.



## 7 | RELIABILITY

Sturdy casting frame design for world-renowned reliability

## 8 | COMFORT

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

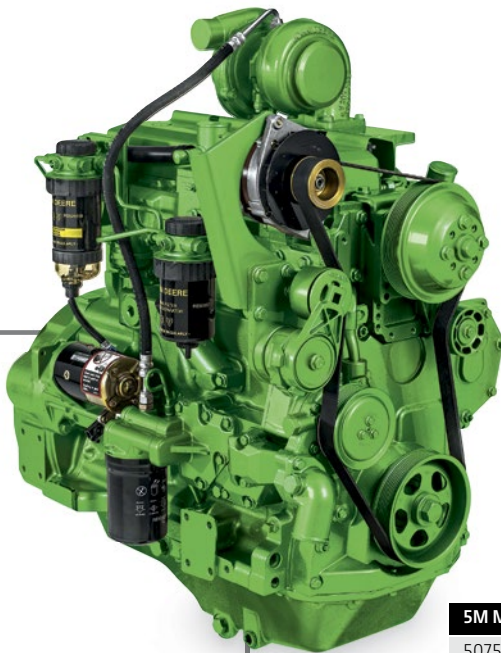
## 9 | ERGONOMICS

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

# HALF BODYBUILDER, HALF ACCOUNTANT

## ENGINES

Think muscular low-end torque, excellent fuel economy, and full Stage IIb 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 (RATED POWER 97/68EC)

5075M	55 kW (75 hp)	3-cyl.
5090M	66.6 kW (90 hp)	4-cyl.
5100M	74 kW (100 hp)	4-cyl.
5115M	85 kW (115 hp)	4-cyl.

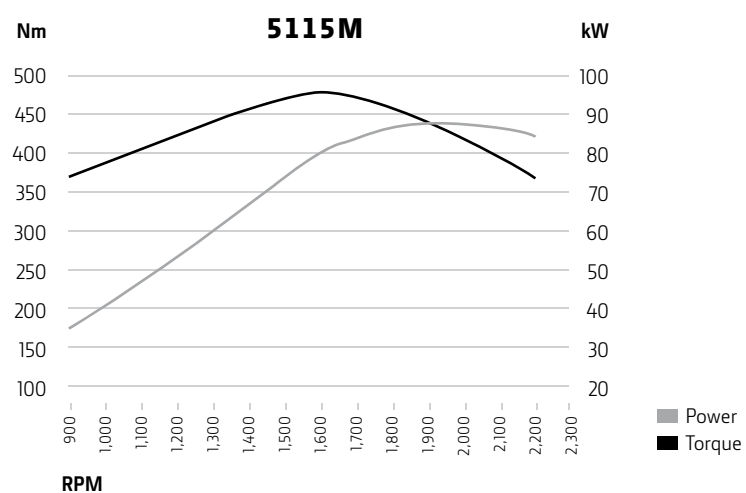




No additives required. By combining Cooled Exhaust Gas Recirculation (EGR) technology with an intercooler and Diesel Particle Filter (DPF), Stage IIIB emissions standards are met without the need for any additives.

## EXTRA POWER

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



We've added a new affordable 4 cylinder model with 90 hp, the 5090M.





### **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 a cinch with the practical PowerReverser.



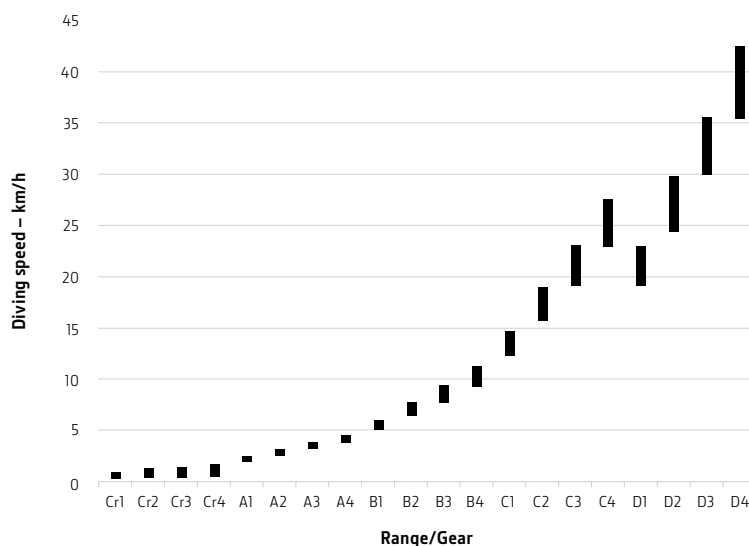


# YOUR FARM, YOUR TRANSMISSION

## 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 gears creeper option lets you work at speeds as low as 280 m/h. An integrated lock mechanism comes as standard.



# POWERFUL DELIVERY

## POWERTRAIN EFFICIENCY

You've bought it, you should have it available to you. It's that simple. The 5M gives you all the power you paid for, right where you need it.

To make sense of much of the power delivery specifications you read out there, you pretty much need an engineering degree. The horsepower that others advertise in manuals is not always what will arrive on the ground or at your implements. But that is where it really matters. We know that, and it's all we care about. We keep it simple and efficient – our superior powertrain design makes sure that you have 85% of power generated by the engine available to you – where it counts.



The 5M's power efficiency makes sure that you get to use your power where you need it, with better traction and more comfort in all applications.





## UNRESTRAINED EFFICIENCY

On the journey that your horsepower takes from the engine to where you need it, some of it gets consumed. We've made sure this is kept to a minimum. The superior efficiency (1) of the PowrReverser transmission holds almost nothing back. And our up to 1.68 m extra wide tyres (2) put it all to the ground.

# 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 | LEATHER STEERING WHEEL (optional)

Who doesn't love a leather steering wheel. You'll like the premium grip and feel.

### 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 to the rear SCVs. Lifting is another strong point of the 5M, and we've increased the capacity of the rear hitch up to 4,400 kg – making 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.





We've taken the hood of the 5M down as low as possible to maximise the front visibility so critical to efficient front loader work.

# BUILT TO LIFT

## FRONT LOADERS

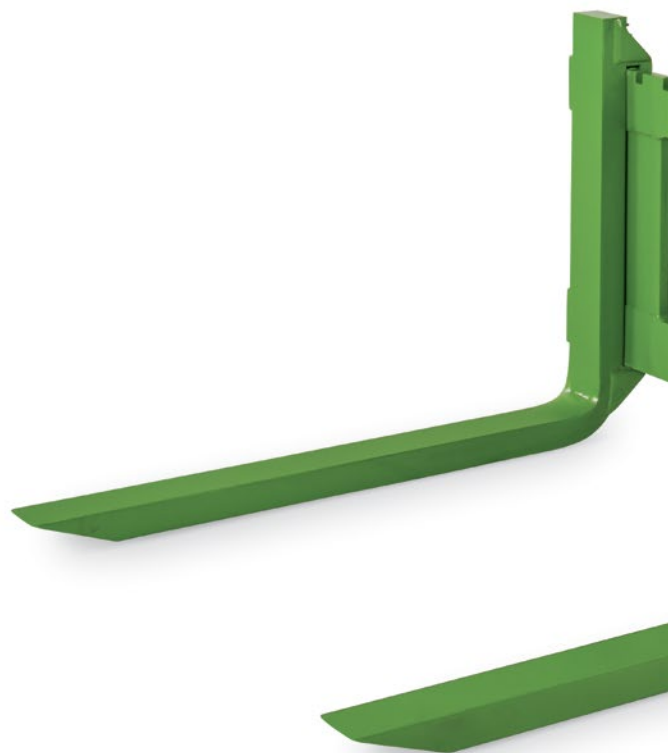
Always a perfect match, tractor, loader and attachments are designed and built for each other. Get the 5M with the versatile high-performance 543R front loader, and take advantage of the efficient ease of use only our fully integrated design can deliver.



### JOYSTICK

The responsive and accurate loader control joystick of the 5M shines with convenient ease of use. Depending on tractor model, additional joystick functions can include GSS, diverter valves, and loader suspension.

- 1| Gear Shift Switch
- 2| Loader Suspension ON/OFF
- 3| 3rd function, 4th function – activation of diverter



"Click & go" front loader mounting comes as standard and could not be quicker, safer or more convenient, thanks to the patented self-correcting floating system of the built-in automatic mast latch.



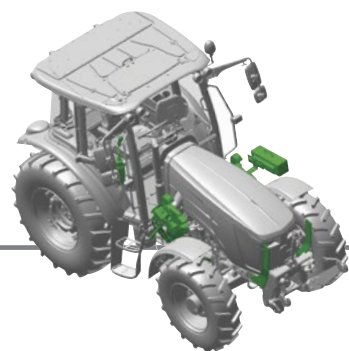




### **543R FRONT LOADER: MADE FOR THE 5M**

Thanks to our patented Automatic Latch designs, installing the loader and implements is as easy as click & go. Our original levelling link design makes more power available for lifting and never gets in the way of the operator's view of the action.

Quickly connect/disconnect implements as needed. Our patented auto latch system lets you automatically lock and unlock implements with the conveniently located release handle.



### **EASY-FIT**

Every 5M tractor can be fitted with a loader-ready package ex-works, including mounting frames, hood protection, in cab joystick, and all the internal electrical and hydraulic connections.

# 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.







# EXPERIENCE THE POWERGARD FEELING

## POWERGARD

PowerGard agreements protect you against unexpected repair costs and keep your maintenance on track with genuine parts for your tractor, to have you running perfectly at all times.

### POWERGARD MAINTENANCE

PowerGard Maintenance provides the basic protection of preventative maintenance work. It's essential for keeping equipment in good working order.

### POWERGARD PROTECTION

PowerGard Protection provides comprehensive protection for total peace of mind. Two levels of protection are available to meet every need – PowerGard Protection and PowerGard Protection Plus.

Both offers are available for new machines, up to 28 days after the equipment delivery.

## SPECIFICATIONS

	5075M	5090M, 5100M, 5115M
<b>ENGINE</b>		
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)	198 (Cab)	153 (OOS), 198 (Cab)
Biofuel capabilities	Yes	Yes
Cooling method	Water	Water
Emissions level	Stage III B	Stage III B
Service intervals (hours)	500 h	500 h
<b>PERFORMANCE</b>		
Rated Power (97/68 EC), kW (PS)	55 (75)	66.6 (90) / 74 (100) / 85 (115)
Max Power (97/68 EC), kW (PS)		69 (94), 77 (104), 88 (120)
Rated Power (ECE-R24)	N/A	N/A
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
<b>TRANSMISSION</b>		
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
<b>PTO</b>		
Clutch	Electro-hydraulic	Electro-hydraulic
Standard	540 / 540E or 540 / 540E / 1000	540 / 540E or 540 / 540E / 1000
<b>HYDRAULICS</b>		
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
<b>OPERATOR STATION</b>		
Model availability (i=isolated)	Cab	Cab
Roll over protective structure oos	Yes	Yes
Platform – Flat/Straddle	Flat	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		
rear	2 (4 optional)	2 (4 optional)
Beacon light	optional	optional
Rear wheel weights	optional	optional
One-piece hood	Yes	Yes
<b>DIMENSIONS &amp; WEIGHTS</b>		
2WD availability	Yes	Only 5090M
4WD availability	Yes	Yes
<b>2WD</b>		
Wheelbase (mm)	2,300	2,300
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)	4	4
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)	3,600	3,600
Max. permissible weight (kg)	6,000	6,000
Tires		
front	11L-15 F3	11L-15 F3
rear	420/85R30	420/85R30
<b>4WD</b>		
Wheelbase (mm)	2,300	2,300
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)	4.6	4.6
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	2,030
Shipping weight (kg)	3,900	3,900
Max. permissible weight (kg)	7,500	7,500
Tires		
front	320/85R24	320/85R24
rear	420/85R30	420/85R30

## SPECIFICATIONS

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.



TRACTOR MODEL				5075M, 5090M, 5100M, 5115M (AUGUSTA STAGE IIIB MY18)	
FRONT TIRE				575/13.6R24	
REAR TIRE				750/16.9R34	
WHEELBASE		(WB)	mm	2,300	
PUMP CAPACITY			lpm	70	
RATED PRESSURE			psi / BAR	2,828/195	
LOADER				543R NSL	
BUCKET				Heavy Duty Bucket 1,850 mm	
BUCKET WEIGHT			lb/kg	600	272
LIFT CAPACITY* @ FULL HEIGHT	MEASURED @ PIVOT	(U)	lb/kg	4,542	2,060
	MEASURED @ 500 mm AHEAD OF PIVOT	(V)	lb/kg		
	MEASURED @ 800 mm AHEAD OF PIVOT	(V)	lb/kg	2,943	1,335
LIFT CAPACITY* @ 59 in (1.5 m) LIFT HEIGHT	MEASURED @ PIVOT	(W)	lb/kg	4,872	2,210
	MEASURED @ 500 mm AHEAD OF PIVOT	(X)	lb/kg		
	MEASURED @ 800 mm AHEAD OF PIVOT	(X)	lb/kg	3,642	1,652
BOOM BREAKOUT	MEASURED @ PIVOT	(Y)	lb/kg	5,135	2,329
	MEASURED @ 500 mm AHEAD OF PIVOT	(Z)	lb/kg		
	MEASURED @ 800 mm AHEAD OF PIVOT	(Z)	lb/kg	3,560	1,615
BUCKET ROLLBACK FORCE	@ MAXIMUM HEIGHT	(VV)	lb/kg	3,635	1,649
	@ 59 in (1.5 m) LIFT HEIGHT	(XX)	lb/kg	5,977	2,711
	@ GROUND LEVEL	(ZZ)	lb/kg	5,657	2,566
MAXIMUM LIFT HEIGHT*			(A)	in/mm	145
CLEARANCE*	@ FULL HEIGHT – BUCKET LEVEL	(B)	in/mm	135	3,440
	@ FULL HEIGHT – BUCKET DUMPED	(C)	in/mm	105	2,676
OVERALL LENGTH		(WB+F)	in/mm	185	4,695
OVERALL HEIGHT IN CARRY POSITION		(J)	in/mm		
DIGGING DEPTH*		(H)	in/mm	-4	-104
REACH*	@ MAXIMUM HEIGHT	(D)	in/mm	31	790
	@ GROUND – BUCKET LEVEL	(F)	in/mm	94	2,395
BUCKET ANGLES	DUMP ANGLE @ FULL HEIGHT	(E)	degrees	-58	
	ROLLBACK @ GROUND	(G)	degrees	47	
	DUMP ANGLE @ GROUND		degrees	-151	
CYCLE TIMES	LOADER RAISE		sec	4.4	
	LOADER LOWER		sec	3.3	
	BUCKET DUMP		sec	3.3	
	BUCKET ROLLBACK		sec	2.2	

\*The values may vary according to the tractor and loader settings/configuration.



5075M, 5090M, 5100M, 5115M (AUGUSTA STAGE IIIB MY18)		5075M, 5090M, 5100M, 5115M (AUGUSTA STAGE IIIB MY18)		5075M, 5090M, 5100M, 5115M (AUGUSTA STAGE IIIB MY18)		5075M, 5090M, 5100M, 5115M (AUGUSTA STAGE IIIB MY18)	
575/13.6R24		575/13.6R24		575/13.6R24		575/13.6R24	
750/16.9R34		750/16.9R34		750/16.9R34		750/16.9R34	
2,300		2,300		2,300		2,300	
70		70		70		70	
2,828/195		2,828/195		2,828/195		2,828/195	
<b>543R MSL</b>		<b>603R NSL</b>		<b>603R MSL</b>		<b>603R HSL</b>	
Heavy Duty Bucket 1,850 mm		Heavy Duty Bucket 1,850 mm		Heavy Duty Bucket 1,850 mm		Heavy Duty Bucket 1,850 mm	
600	272	600	272	600	272	600	272
3,739	1,696	4,780	2,168	3,957	1,795	4,312	1,956
3,774	1,712	3,285	1,490	3,988	1,809	4,365	1,980
4,594	2,084	5,265	2,388	4,877	2,212	5,027	2,280
4,281	1,942	4,039	1,832	4,579	2,077	4,930	2,236
5,615	2,547	5,730	2,599	5,781	2,622	5,734	2,601
4,612	2,092	4,180	1,896	4,960	2,250	5,203	2,360
3,748	1,700	5,139	2,331	5,284	2,397	5,796	2,629
6,021	2,731	8,913	4,043	8,510	3,860	9,897	4,489
5,670	2,572	9,240	4,191	8,466	3,840	10,331	4,686
145	3,681	148	3,760	148	3,761	148	3,761
135	3,441	139	3,520	139	3,521	139	3,521
105	2,677	108	2,749	108	2,751	108	2,750
185	4,700	199	5,038	199	5,038	199	5,038
-4	-102	-9	-228	-9	-227	-9	-227
31	791	42	1,067	42	1,065	41	1,054
94	2,400	108	2,738	108	2,738	108	2,736
-58		-60		-60		-60	
47		52		52		53	
-100		-143		-99		-143	
4.0		5.1		4.7		4.7	
2.9		3.8		3.5		3.5	
2.2		4.3		3.0		4.3	
2.2		3.0		3.0		3.2	

# 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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