

5G SERIES

Speciality crops



Tailored to fit 2.0



TAILORED TO FIT 2.0

Speciality crop farming is a business that we take very seriously. Because it's a business that requires specialised equipment tailored to fit your vineyard or orchard plantation.

Meet the John Deere 5G Series Speciality tractors. These tractors are built to outperform in a variety of different applications. They are easy on the soil, light on fuel and both powerful and versatile enough to take care of a wide range of everyday tasks.





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YOUR SPECIALITY IS OUR SPECIALITY

The 5G Series is one of the most comprehensive ranges of speciality tractors on the market. So it's easy to find the suitable tractor for your operations.

The 5GF is the ideal all-rounder for work in wide vineyards and orchards. Low-hanging orchards and pergola vineyards are best served by the low profile 5GL, available with up to 100 hp, PowrReverser transmission and Low Profile cab. And there's a new narrow 5GL with the same overall width as the 5GN. The 5GN is designed for orchards and vineyards with reduced row widths, while the 5GV is the perfect tractor for super-narrow vineyards.



COMPREHENSIVE RANGE
SPECIALLY MADE FOR SPECIALISTS

5GF



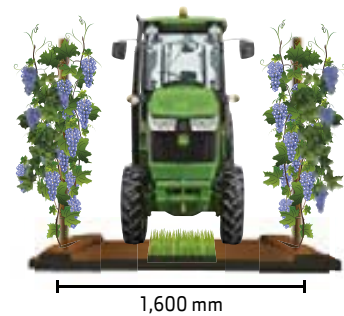
Perfect for orchards and all-round work

5GN



For working in widely spaced vineyards

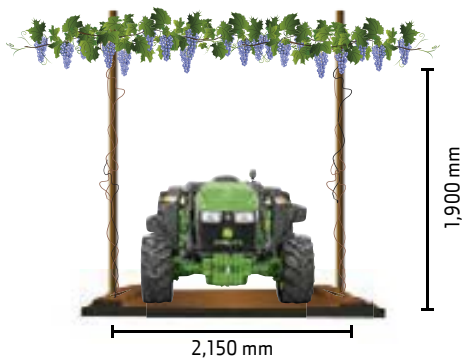
5GV



Ideal in tightly planted vineyards

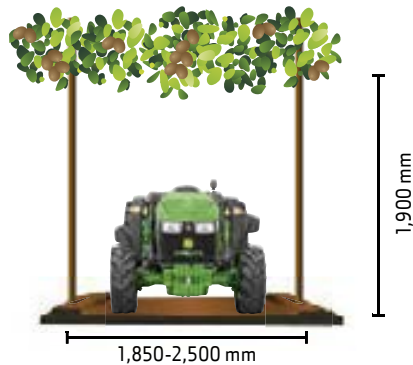


5GL (F)



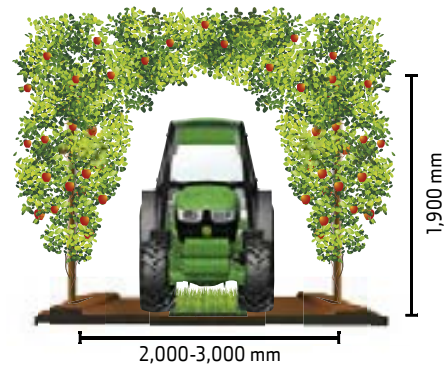
The choice for pergola vineyards

5GL (N)



At home in low-hanging orchards or pergola vineyards

5GL CAB (F/N)



Low-profile cab provides protection against hanging foliage

New engine line-up

All 5G tractors are powered by new compact 4-cylinder 3.4-litre Stage III B engines, available with power outputs ranging from 75 hp to 110 hp with IPM.

New cabs

There's more space and comfort in the redesigned cabs. Now there's a new narrow cab for the 5GV and a low-profile cab for the 5GL, both of which are available ex-factory.

Extended transmissions line-up

The premium 24F/12R PowrReverser transmission is now available for all 5G tractors, including the 5GL.

Increased hydraulic capacity

Up to 126 l/min is available, as are up to 4 EH SCVs with an electronic joystick, fingertip controls, time and flow controls.

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4

As special as you are

The 5G Series incorporates technologies and features that make speciality crop farming easier and more efficient.

While many features are standard in every 5G tractor, you can customize your machine for working in your specific conditions by specifying your choice of optional equipment. All have been designed and calibrated to work perfectly together.



More PTO power

The optional IPM boosts PTO performance by adding an extra 5 hp for 105 hp models and an extra 10 hp for 90 hp models. Available only for 5GF, 5GN and 5GV tractors.

Best in class turning radius

The reduced overall length and an increased steering angle of up to 43° allow tighter, faster turns. Ideal in headlands.

Extended service interval

Hydraulic oil service intervals have been extended to 750 hours to maximize your working uptime and minimize maintenance costs.

New control layout

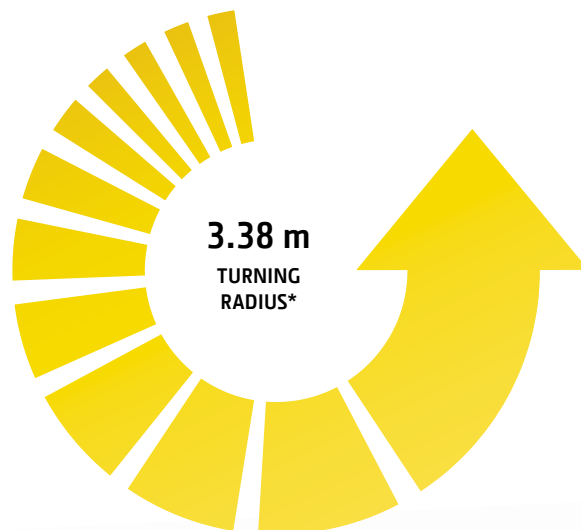
The new right-hand console provides intuitive ergonomic control of mechanical or electro-hydraulic SCVs and hitches.

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Tighter headland turns

Every 5G tractor benefits from a reduction in overall length and an increase in steering angle, resulting in superlative manoeuvrability, especially in headland turns.



*Based on 5GF Series tractor with 280/70 R18 tyres

A DISTINCT UPGRADE

5G Series tractors now have redesigned cabs that are more comfortable and bring 10% more room for the operator. They are also equipped with a revised control layout for more convenience and efficiency.

Raising the operator station has also reduced transmission tunnel height by 33%. All-round visibility is excellent, so the tractor can be positioned extremely accurately in the confined spaces typical of speciality crop farming. Cabs for the 5GN, 5GF and 5GV are sealed and pressurised to keep out dust and dirt, and the height-adjustable seat and the tilting and telescopic steering wheel make it easy finding your ideal driving position. 5GF and 5GL Series tractors are also available without cabs, known as Open Operator Station (OOS) tractors.



New narrow vineyard cab for 5GV

No more than 1 m in overall width, this new cab avoids damaging foliage and grapes in super-narrow vineyard rows.



Open Operator Station (OOS)

5GF and 5GL Series are available as OOS (no cab) tractors.



The spacious interior of the new 5GV cab.



New low-profile cab for 5GL

This ex-factory cab is the only homologated low-profile cab in this segment that does not require additional rollover protection. So working in very low-height plantations is both comfortable and sheltered thanks to the low overall height.

5105 GN

MORE POWER AND TORQUE

MORE MANOEUVRABILITY

BIG POWER IN A SMALL FORMAT

The new 3.4-litre Stage III B engine delivers more constant power, more torque and higher service intervals. It's a very compact 4-cylinder unit, which made it possible for our engineers to reduce the overall tractor length to make it even more manoeuvrable.

UP TO 110 HP WITH IPM

Electronic injection and optional Intelligent Power Management (IPM) contribute to the higher levels of the power and torque. Power outputs of 75 hp, 90 hp (+10 hp with IPM), and 105 hp (+5 hp with IPM) are available. Stage III B compliance is achieved by our Exhaust Gas Recirculation (EGR) system that integrates a Diesel Particulate Filter (DPF) and Diesel Oxidation Catalyst (DOC).



INTELLIGENT ENGINEERING

To maintain the low height of the 5GL, the after treatment equipment is located outside and alongside the hood. The 5GF, 5GN and 5GV tractors, where overall height is not critical, accommodate the same components under the hood.

Just add... nothing

For high performance and low consumption, all you need is diesel. 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 additive and the extra weight of an associated tank.



MATCHING POWER TO PURPOSE

Different applications demand different levels of performance, so every 5G tractor offers a choice of four super-efficient transmissions. The transmission oil cooler reduces operating costs by maximizing oil lifetime and performance.

All transmissions feature fully synchronised gears, with four gears in each range. The 24F/24R system is available with electro-hydraulic Hi-Lo, providing smooth powershifting of all forward gears for uninterrupted traction. Our premium PowrReverser 24F/12R transmission can now be specified for all 5G Series tractors.



NEW RIGHT-HAND CONSOLE

INTELLIGENTLY GROUPED CONTROLS

Tighter headland turns

Controls on the new right-hand console are intelligently grouped to facilitate intuitive operation. The close grouping of controls for the electro-hydraulic PTO and SCVs. Hitch, MFWD and electronic hand throttle makes the execution of tight headland turns faster, simpler and smoother than ever.





PowrReverser

Redesigned for 5GF, 5GN and 5GV tractors, the electric PowrReverser allows the operator to switch directions with an effortless finger movement, without letting go of the wheel, and without the need to depress the clutch pedal. In order to maintain the lowest possible height, 5GL tractors retain the previous design.



24F/12R transmission

The PowrReverser transmission is available with the premium 24F/12R transmission. The de-clutch button is conveniently located on the gearshift lever for easy shifting on the go.



Creep speed

5G Series tractors with either the 24F/24R or 24F/12R PowrReverser transmission benefit from a low speed/high torque creep function for operations that require extremely low ground speeds.

OUTSTANDING HYDRAULIC PERFORMANCE

The versatility and strength of your 5G Series speciality tractor is assured by its proven constant hydraulic performance, providing impressive real world lift capacity.

Taking advantage of all this power is enhanced by a series of premium hydraulic options. These include from 2 mechanical SCVs, up to 4 electro-hydraulic SCVs, joystick control, and a third pump that boosts hydraulic flow rate up to 126 l/m. 5G tractors are ready to operate every type of hydraulic implement used in orchard and vineyard applications.

PREMIUM HYDRAULICS

SUPERLATIVE CONTROL

HYDRAULIC PUMP OPTIONS

5G tractors can be specified with up to three pumps, delivering up to 126 l/min for faster implement response and powering heavier implements. The inherent efficiency of the John Deere hydraulic system maintains a high flow rate even in demanding high-pressure conditions.





Electro-hydraulic operation of SCVs

All controls for the SCVs and hitches are grouped logically for easy, intuitive operation.

Joystick control

Hydraulic flow and time controls

Electro-hydraulic SCV controls





MORE PTO PERFORMANCE. MORE PUNCH

5G Series tractors are so well engineered that their transmission systems provide best in class PTO performance. The fully integrated electro-hydraulic front PTO is switch-operated. In transport situations, the optional Ground Drive PTOs deliver extra traction by providing power and torque to drive the wheels of a trailer.

ENGINEERED FOR EFFICIENCY

BEST IN CLASS PTO PERFORMANCE



Optional front PTO

Runs at 1,000 rpm to power even heavy implements.



Front hitch

The integrated front hitch extends the versatility of any 5GF, 5GN or 5GL tractor.

Specifications

MODEL	5075GV	5090GV	5075GN	5090GN	5105GN
ENGINE PERFORMANCE					
	97/68EC (without fan)				
Rated power (97/68EC) [hp/kW]	73 / 54	91 / 67.1	73 / 54	91 / 67.1	105 / 77
Maximum power (97/68EC) [hp/kW]	74.7 / 55	92.3 / 67.9	74.7 / 55	92.3 / 67.9	105 / 77
Rated power (97/68EC) with IPM [hp/kW]	n.a.	96.3 / 70.8	n.a.	96.3 / 70.8	105 / 77
Maximum power (97/68EC) with IPM [hp/kW]	n.a.	101.5 / 74.6	n.a.	101.5 / 74.6	111.5 / 82
Constant Power Range [rpm]	400	400	400	400	300
Torque Rise %	39	31	39	31	26
Torque @ 1,000 rpm [Nm]	258	325	258	325	373
Max. torque [Nm]	312	366	312	366	403
ENGINE SPECIFICATIONS					
Rated Speed [rpm]	2,300				
Engine Type	FPT F34				
Aspiration	Wastegate Turbocharger with intercooler and and externally cooled Exhaust Gas				
Cylinders and displacement	4 / 3.4 L				
Number of Valves Per Cylinder	2				
Cooling System and Fan Drive	Cooling system with Temperature Controlled Viscous Fan Drive				
Fuel Injection System & Control	High Pressure CommonRail System with up to 1,600 bar Injection Pressure				
After Treatment Type	Diesel Oxidation Catalyst (DOC) and diesel Particulate Exhaust Filter (DPF)				
Bore & Stroke [mm]	99 / 110				
Compression ratio	1:17				
Interval for engine oil change [h]	500				
FUEL TANK					
Base Fuel tank capacity [l]	73				
Auxiliary Fuel Tank	n.a.			30	
Fuel tank capacity with additional Fuel Tank [l]	n.a.			103	
Fuel tank capacity with Front PTO	n.a.			54	
Fuel tank capacity with Front PTO and additional Fuel Tank	n.a.			84	
TRANSMISSION OPTIONS					
24F/12R PowrReverser, EH Hi-Lo, 0.5-40 km/h	X	X	X	X	X
24F/24R Mechanic Reverser, EH Hi-Lo, 0.5-40 km/h	X	X	X	X	X
24F/24R Mechanic Reverser, Mech Hi-Lo, 0.5-40 km/h	X	X	X	X	X
12F/12R Mechanic Reverser, 1.4-30 km/h, 4WD	X	X	X	X	X
12F/12R Mechanic Reverser, 1.4-30 km/h, 2WD	X	X	X	X	X
HYDRAULIC SYSTEM					
System Type	Open Center Hydraulic System				
Base pump – delivery rate per minute at rated speed [l]	29.8			29.8	
2nd optional pump – delivery rate per minute at rated speed [l]	66.8			66.8	
3rd optional pump – delivery rate per minute at rated speed [l]	29.8			29.8	
Maximum No. of SCV's	4			4	
Maximum No. of Rear SCV couplers	7-9			7-9	
Maximum No. of Mid SCV couplers	0-7			0-7	
3 POINT HITCH – REAR					
Category	I			I/II	
Max. Lift Capacity @ hitching point [kN]			25.4		
Max. Lift Capacity @ hitching point with additional lift cylinder [kN]	n.a.			30.4	
3 POINT HITCH – FRONT – LIFT CAPACITY					
Category	n.a.			II	
Max. Lift Capacity @ hitching point [kg]	n.a.			2,888	
REAR PTO					
Clutch Type	Single disc dry clutch / Multi disc wet clutch (only with 24F/12R PR)				
540 / 540E	X			X	
540 / 1000	X			X	
Engine at rated PTO speeds (540/540E/1,000 rear PTO) [rpm]	1,938 / 1,648 / 1,962				
FRONT PTO					
Type	n.a.			Electrohydraulic Engagement	
Splines	n.a.			6	
Operation	n.a.			6	

MODEL	5GV	5GN	5GF	5GL IOOS (F-WIDTH)	5GL CAB (N/F-WIDTH)	5GL IOOS (N-WIDTH)
DIMENSIONS AND WEIGHTS						
Wheelbase 4WD [mm]	2,148	2,148	2,148	n.a.	n.a.	n.a.
Total Length incl. Drawbar & without front base weight [mm]	3,648	3,648	3,648	3,686	tbd.	3,686
Total length incl. Front weight support, Front weights, Drawbar [mm]	4,125	4,125	4,125	4,165	tbd.	4,165
Height Center of Rear Axle to top of CAB roof [mm]	1,380	1,380	1,380	n.a.	tbd.	n.a.
Height Center of Rear Axle to top of ROPS [mm]	n.a.	n.a.	1,952	1,987	tbd.	1,987
Height Center of Rear Axle to top of hood [mm]	967	967	967	800	800	800

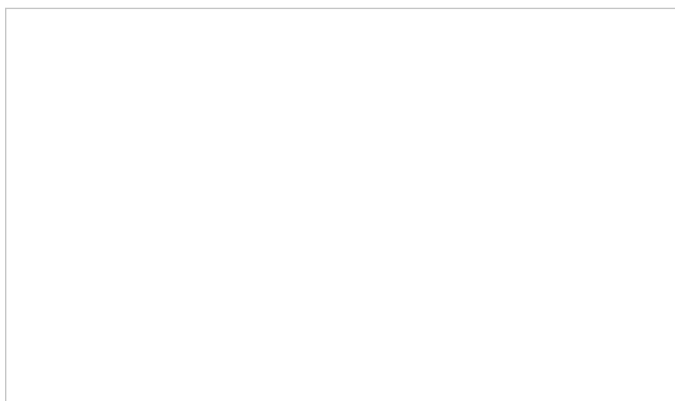
5075GF	5090GF	5105GF	5075GL	5090GL	5100GL
97 / 68EC (without fan)					
73 / 54	91 / 67.1	105 / 77	73 / 54	91 / 67.1	100 / 74.6
74.7 / 55	92.3 / 67.9	105 / 77	74.7 / 55	92.3 / 67.9	101.5 / 74.6
n.a.	96.3 / 70.8	105 / 77	n.a.	n.a.	n.a.
n.a.	101.5 / 74.6	111.5 / 82	n.a.	n.a.	n.a.
400	400	300	400	400	300
39	31	26	39	31	29
258	325	373	258	325	372
312	366	403	312	366	401
2,300					
FPT F34					
Wastegate Turbocharger with intercooler and and externally cooled Exhaust Gas					
4 / 3.4 L					
2					
Cooling system with Temperature Controlled Viscous Fan Drive					
High Pressure CommonRail System with up to 1,600 bar Injection Pressure					
Diesel Oxidation Catalyst (DOC) and diesel Particulate Exhaust Filter (DPF)					
99 / 110					
1:17					
500					
73					
	30			n.a.	
	103			n.a.	
	54			52	
	84			n.a.	
X	X	X	X	X	X
X	X	X	n.a.	n.a.	n.a.
X	X	X	X	X	X
X	X	X	n.a.	n.a.	n.a.
X	X	X	n.a.	n.a.	n.a.
Open Center Hydraulic System					
	29.8			29.8	
	66.8			66.8	
	29.8			29.8	
	4			4	
	7-9			7-9	
	0-7			n.a.	
	I/II			I/II	
		25.4			
	30.4			n.a.	
		II			
	2,888			2,218	
Single disc dry clutch / Multi disc wet clutch (only with 24F/12R PR)					
	X			X	
	X			X	
		1,938 / 1,648 / 1,962			
Electrohydraulic Engagement					
		6			
		6			

MODEL	5GV	5GN	5GF	5GL IOOS (F-WIDTH)	5GL CAB (N/F-WIDTH)	5GL IOOS (N-WIDTH)
DIMENSIONS AND WEIGHTS						
Ground clearance 4WD min – max [mm]	207-324	239-326	243-330	229-304	tbd.	225-300
Rear overall width 4WD min – max [mm]	991-1,676	1,257-1,822	1,303-1,951	1,376-1,829	tbd.	1,246-1,776
Total weight 2WD OOS [kg]	n.a.	n.a.	2,675	n.a.	n.a.	n.a.
Total weight 2WD CAB [kg]	2,655	2,715	2,775	n.a.	n.a.	n.a.
Total weight 4WD OOS [kg]	n.a.	n.a.	2,935	2,830	n.a.	2,670
Total weight 4WD CAB [kg]	2,915	2,975	3,035	n.a.	tbd.	n.a.
Maximum permissible weight (2WD / 4WD) [kg]	4,100 / 4,100	4,200 / 4,400	4,200 / 4,400	- / 4,200	tbd.	- / 4,200

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