

# X7.6



624 - 623 - 621 VT-DRIVE  
623 - 621 - 620 P6-DRIVE

	X7.621 VT-DRIVE	X7.623 VT-DRIVE	X7.624 VT-DRIVE
<b>ENGINE PERFORMANCE</b>			
Rated power (ISO/TR 14396)	HP / kW	194 / 143	205 / 151
Rated power with EPM (ISO/TR 14396)	HP / kW	194 / 143	205 / 151
Max power (ISO/TR 14396)	HP / kW	200 / 147	215 / 158
Max power with EPM (ISO/TR 14396)	HP / kW	210 / 155	225 / 166
Rated engine speed	rpm	2200	
Engine speed at max power	rpm	1900	
Max torque at 1400 rpm	Nm	840 (860)	904 (921)
Torque backup		35% (41%)	
Manufacturer		FPT	
Engine type - Installation		NEF 67 - iso-mounted on cast iron chassis	
Stage V / Tier 4 Final exhaust after-treatment system		HI-eSCR2	
Cylinders/ Displacement / Valves		6 / 6.7 l / 24	
Air filter system		air filter with pre-cleaning stage and dust ejector	
Air intake system		turbo intercooler	
Fuel injection system		electronically-controlled high pressure common rail system	
Maintenance		BIC - Best in Class system - 1000 hours maintenance interval	
Cooling system		matrix radiator pack - coolers open out from a single latch	
Viscotronic fan		●	
<b>CAPACITIES</b>			
Fuel tank	l	350	
AdBlue / DEF tank	l	52	
Cooling system	l	29	
<b>TRANSMISSION</b>			
Type		VT-Drive - continuously variable transmission	
No. of stages		4	
Minimum speed	m/h - rpm	40 - 2200	
40 km/h - engine speed	rpm	● - 1550	
50 km/h - engine speed	rpm	○ - 1690	
Transmission control		EasyPilot with multi-function armrest	
Reverse power shuttle		electrohydraulic with modulation control	
<b>REAR PTO</b>			
Type		electrohydraulic multidisc clutch with modulated engagement	
Speeds	rpm	540 / 540 E / 1000 / 1000 E	
PTO rated speeds	rpm	2005 / 1608 / 1995 / 1600	
Rotation - spline shaft type		clockwise (viewed from tractor rear) ● 1-3/8" PTO shaft with 6 splines / ○ 1-3/8" PTO shaft with 21 splines	
<b>FRONT AND REAR AXLES</b>			
Front rigid axle		●	
Front suspended axle		○ - IFS - independent front wheel suspension system	
Traction type		electrohydraulic 4WD	
Front differential lock		fully electrohydraulic	

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<b>FRONT AND REAR AXLES</b>			
Rear differential lock		fully electrohydraulic	
Rear axle - flanged type		●	
Rear axle - bar axle type		○	
<b>BRAKING SYSTEM</b>			
Front braking system		automatic 4WD engagement while braking	
Rear braking system		5 oil-cooled discs	
Trailer braking system		○ - pneumatic brake system with 2 or 2+1 lines as per MR, with or without single-line hydraulic brake - 2-line hydraulic brake system as per MR (40 km/h only)	
Engine Brake		●	
<b>HYDRAULIC SYSTEM</b>			
Hydraulic piston pump with CCLS system - flow rate		● - 123 l/min	
Hydraulic piston pump with CCLS system - high flow rate		○ - 160 l/min	
Steering pump - flow rate		● - 52 l/min	
Remote valves - type, flow rate, min - max		electro-hydraulic, 100 l/min flow rate, 3 - 6	
Flow divider with flow selector - section flow rate		○ - 3 sections with dedicated push-pullconnectors - 60 l/min per section	
Free flow return		●	
Power Beyond ready and free flow return		○	
Power Beyond with push-pull connectors and free flow return		○	
Mid-mounted remote valves - flow rate		○ - 2 electrohydraulic with multi-function joystick - 100 l/min	
Front loader ready kit		○	
Hydraulic oil take out	l	40	
<b>REAR 3-POINT HITCH</b>			
Electronically-controlled rear hitch		with lower link draft control, position control, mixed control, float position	
Category - coupler type		III - ball ends with quick-hitch hooks	
Max lift capacity at the hooks - ram diameter	kg	9300 - 100 mm	
<b>FRONT 3-POINT HITCH</b>			
Electronically-controlled rear hitch		○ - with position control	
Category - coupler type		III N - ball ends with quick-hitch hooks	
Lift capacity at the hooks (OECD at the hooks)	kg	3500	
<b>FRONT PTO</b>			
Type		○ - electrohydraulic multidisc clutch with modulated engagement	
Speeds	rpm	1000	
Engine speed at rated PTO speed	rpm	1920	
Rotation - spline shaft type		○ - clockwise (viewed from tractor front) - 1-3/8" PTO shaft with 6 splines	
Rotation - spline shaft type (North American version)		○ - counter-clockwise (viewed from tractor front) - 1-3/8" PTO shaft with 21 splines	
<b>CAB</b>			
Première Cab - 4-post cab with McCormick mechanical suspension		●	
McCormick semi-active suspension system		○ - electronically-controlled electrohydraulic semi-active cab suspension	
In-cab noise level	dB(A)	70	
Automatic climate control		●	
Deluxe air suspension seat		○ - low-frequency air suspension, swivel and height adjustments, manual weight control, lumbar support and headrest	

**P6-DRIVE TRASMISSION**

	<b>X7.621 VT-DRIVE</b>	<b>X7.623 VT-DRIVE</b>	<b>X7.624 VT-DRIVE</b>
<b>CAB</b>			
Super Deluxe air suspension seat	○ - Dynamic Damping System, backrest ventilation, alcantara upholstery, swivel and height adjustments, automatic weight control, lumbar support and headrest		
Hide-away buddy seat	●		
EasyPilot with multi-function armrest	●		
DSM Data Screen Manager	● - 12" touch screen monitor		
MyFunctions	● - with DSM		
MyLights	● - with DSM		
MyHMF	● - with DSM		
Radio ready	○ - with 4 speakers		
Radio system	● - radio DAB mp3 with 4 speakers, bluetooth, aux-in and integrated microphone		
Halogen work lights	● - 18		
LED work lights	○ - 20		
Beacon lights	● left side - ○ left and right side		
<b>ON-BOARD TECHNOLOGY</b>			
Front ISObus	○		
Rear ISObus	○		
PSM Precision Steering Management, rear ISObus & EazySteer- ready	○		
PSM Precision Steering Management, rear ISObus & EazySteer - EGNOS full kit	○		
PSM Precision Steering Management, rear ISObus & EazySteer - RTK NTRIP full kit	○ - AT Spare Parts		
McCormick Fleet Management - ready	○		
Fleet & Remote Diagnostics management and McCormick Farm Pro Pack on selected markets	● - 1 year - ○ - 3 years - ○ - 5 years		
<b>WEIGHT AND DIMENSIONS</b>			
Wheelbase	mm	2820	
Max height over cab without beacon lights (withPSM satellite steering system)	mm	3044 (3159) - measured with tires 540/65R30 - 650/65R42	
Max height from rear axle centre to cab roof (with PSM satellite steering system)	mm	2180 (2295)	
Max lenght with front weights - Max track width	mm	5360 - 2550 measured with tyres 600/60R30 - 710/60R42	
Turning radius	mm	5400 measured with tyres 540/65R30 - 650/65R42	
Shipping weight - measured with average specifications	kg	8300	
Gross vehicle weight	kg	13000	
Max front and rear tire sizes - (Index Radius- IR)	mm	600/60R30 (IR 700) - 710/60R42 (IR 925)	
Front weight support	●		
Weights - No. x weight	kg	○ - 12 x 45 or 16 x 45	
Front hitch weight	kg	○ - 800 or 1400	
Rear axle weights	kg	○ - 170 or 340 or 510	

**Key:** ● standard ○ option

	<b>X7.620 P6-DRIVE</b>	<b>X7.621 P6-DRIVE</b>	<b>X7.623 P6-DRIVE</b>
<b>ENGINE PERFORMANCE</b>			
Rated power (ISO TR 14396)	hp/kW	175 / 129	194 / 143
Rated power with EPM (ISO TR 14396)	hp/kW	175 / 129	194 / 143
Max power (ISO TR 14396)	hp/kW	180 / 132	200 / 147
Max power with EPM (ISO TR 14396)	hp/kW	190 / 140	210 / 155
Rated engine speed	rpm	2200	
Engine speed at max power	rpm	1900	
Max torque without EPM (with EPM) at 1400 rpm	Nm	756 (778)	840 (860)
Torque backup without EPM (with EPM)		36% (41%)	
Manufacturer	FPT		
Engine type - Installation	NEF 67 - iso-mounted on cast iron chassis		
Stage V / Tier 4 Final exhaust after-treatment system	HI-eSCR2		
Cylinders/ Displacement / Valves	6 / 6.7 l / 24		
Air filter system	air filter with pre-cleaning stage and dust ejector		
Air intake system	turbo intercooler		
Fuel injection system	electronically-controlled high pressure common rail system		
Maintenance	BIC - Best in Class system - 1000 hours maintenance interval		
Cooling system	matrix radiator pack - coolers open out from single latch		
Viscotronic fan	●		
<b>CAPACITIES</b>			
Fuel tank	l	320	
AdBlue / DEF tank	l	52	
Cooling system	l	29	
<b>TRANSMISSION</b>			
Type	P6-Drive - 6 powershift speeds and 5 robotized ranges		
No. of gears	● - 30 FWD + 15 REV without creeper - ○ 54 FWD + 27 REV with creeper		
Minimum speed	km/h	3.2 without creeper - 0.4 with creeper	
40 km/h - engine speed	rpm	● - 1505	
50 km/h - engine speed	rpm	○ - 1880	
Transmission control	EasyPilot on RH console (EFFICIENT version) - EasyPilot with multi-function armrest (PREMIUM version)		
Reverse power shuttle	electrohydraulic with modulation control		
APS - Auto PowerShift	● - electronically-controlled automatic powershift and range shifting		
<b>REAR PTO</b>			
Type	electrohydraulic multidisc clutch with modulated engagement		
Speeds	540 / 540 E / 1000 / 1000 E		
Engine speed at rated PTO speed	rpm	2000 / 1588 / 2002 / 1590	
Rotation - spline shaft type	clockwise (viewed from tractor rear) - ● - 1-3/8" PTO shaft with 6 splines / ○ 1-3/8" PTO shaft with 21 splines		
<b>FRONT AND REAR AXLES</b>			
Front rigid axle	●		
Front suspended axle	○ - IFS - independent front wheel suspension system		
Traction type	electrohydraulic 4WD		

**P6-DRIVE TRASMISSION**

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<b>FRONT AND REAR AXLES</b>			
Front differential lock		fully electrohydraulic	
Rear differential lock		fully electrohydraulic	
Rear axle - flanged type		●	
Rear axle - bar axle type		○	
<b>BRAKING SYSTEM</b>			
Front braking system		automatic 4WD engagement while braking	
Rear braking system		5 oil-cooled discs	
Trailer braking system		○ - pneumatic brake system with 2 or 2+1 lines as per MR, with or without single-line hydraulic brake - 2-line hydraulic brake system as per MR (40 km/h only)	
Engine brake		●	
<b>HYDRAULIC SYSTEM</b>			
Hydraulic piston pump with CCLS system - flow rate		● - 123 l/min	
Hydraulic piston pump with CCLS system - high flow rate		○ - 160 l/min (PREMIUM version)	
Steering pump - flow rate		● - 52 l/min	
Remote valves - type, flow rate, min - max		● - 3 mechanical, 80 l/min - ○ - 3 mechanical + 2 electrohydraulic (EFFICIENT version) - electrohydraulic, 100 l/min, 3 - 6 (PREMIUM version)	
Flow divider with flow selector - section flow rate		○ - 3 sections with dedicated push-pull connectors - 60 l/min per section (PREMIUM version)	
Free flow return		●	
Power Beyond ready and free flow return		○	
Power Beyond with push-pull connectors and free flow return		○	
Mid-mounted remote valves - flow rate		○ - 2 electrohydraulic with multifunction joystick - 100 l/min	
Front loader ready kit		○	
Hydraulic oil take out	l	40	
<b>REAR 3-POINT HITCH</b>			
Electronically-controlled rear hitch		with lower link draft control, position control, mixed control, float position	
Category - coupler type		III - ball ends with quick-hitch hooks	
Max lift capacity at the hooks - ram diameter	kg	● - 6400 - 80 mm ○ - 9300 - 100 mm (EFFICIENT version) - ● - 9300 - 100 mm (PREMIUM version)	
<b>FRONT 3-POINT HITCH</b>			
Electronically-controlled rear hitch		○ - with position control	
Category - coupler type		III N - ball ends with quick-hitch hooks	
Lift capacity at the hooks (OECD at the hooks)	kg	3500	
<b>FRONT PTO</b>			
Type		○ - electrohydraulic multidisc clutch with modulated engagement	
Speeds		1000	
Engine speed at rated PTO speed	rpm	1920	
Rotation - spline shaft type		○ -clockwise (viewed from tractor front) - 1-3/8" PTO shaft with 6 splines	
Rotation - spline shaft type (North American version)		○ -counter-clockwise (viewed from tractor front) - 1-3/8" PTO shaft with 21 splines	
<b>CAB</b>			
Première Cab - 4-post cab mounted on silent blocks		●	
McCormick mechanical cab suspension system		○	
McCormick semi-active suspension system		○ - electronically-controlled electrohydraulic semi-active cab suspension	
In-cab noise level	dB(A)	70	
Manual climate control		● (EFFICIENT version)	

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<b>CAB</b>			
Automatic climate control		● - (PREMIUM version) - ○ (EFFICIENT version)	
Deluxe air suspension seat		● - low-frequency air suspension, swivel and height adjustments, manual weight control, lumbar support and headrest	
Super Deluxe air suspension seat		○ - (PREMIUM version) - Dynamic Damping System, backrest ventilation, alcantara upholstery, swivel and height adjustments, automatic weight control, lumbar support and headrest	
Hide-away buddy seat		●	
EasyPilot on RH console		● - (EFFICIENT version)	
EasyPilot with multi-function armrest		● - (PREMIUM version)	
DSM Data Screen Manager		○ - (PREMIUM version) - 12" touch screen monitor	
MyFunctions		● - with DSM	
MyLights		● - with DSM	
MyHMF		● - with DSM	
Radio ready		with 4 speakers ○ - (PREMIUM version) - ● (EFFICIENT version)	
Radio system		radio DAB Mp3 with 4 speakers, bluetooth, aux-in and integrated microphone ● - (PREMIUM version) - ○ (EFFICIENT version)	
Halogen work lights		● - 12 (EFFICIENT version) - 18 (PREMIUM version)	
LED work lights		○ - 20 (PREMIUM version)	
Beacon lights		● - left side ○ - left and right side	
<b>ON-BOARD TECHNOLOGY</b>			
Front ISObus		○	
Rear ISObus		○	
PSM Precision Steering Management, rear ISObus & EazySteer- ready		○	
PSM Precision Steering Management, rear ISObus & EazySteer - EGNOS full kit		○	
PSM Precision Steering Management, rear ISObus & EazySteer - RTK NTRIP full kit		○ - AT Spare Parts	
McCormick Fleet Management - ready		●	
Fleet & Remote Diagnostics management and McCormick Farm Pro Pack on selected markets		● - 1 year - ○ - 3 years - ○ - 5 years	
<b>WEIGHT AND DIMENSIONS</b>			
Wheelbase	mm	2820	
Max height over cab without beacon lights (with PSM with satellite steering system)	mm	3044 (3159) - measured with tyres 540/65R30 - 650/65R42	
Max height from top of cab to rear axle centre (with PSM satellite steering system )	mm	2180 (2295)	
Max length with front weights - Max width	mm	5360 - 2550 measured with tyres 600/60R30 - 710/60R42	
Steering radius	mm	5400 measured with tyres 540/65R30 - 650/65R42	
Shipping weight - measured with average specs	kg	8000	
Gross vehicle weight	kg	13000	
Max front and rear tyre sizes - (Index Radius - IR)	mm	600/60R30 (IR 700) - 710/60R42 (IR 925)	
Front weight support		●	
Weights - no. x weight	kg	○ - 12 x 45 or 16 x 45	
Front hitch weight	kg	○ - 800 ○ - 1400	
Rear axle weights	kg	○ - 170 ○ - 340 ○ - 510	

**Key:** ● standard ○ option