



90 95 100 105 115 CAB - Stage V



Spire F/S/V Stage V: Function and Style.

The new Lamborghini Spire F/S/V Stage V range is the leader among specialised tractors for customers who, in addition to performance and functionality, are looking for a unique style. Lamborghini Trattori has always been the bearer of refined and functional design for all its ranges. And this tradition is continued by the new generation of machines specifically for the fruit orchard and vineyard. This is no mean feat when you consider the need for the compactness and agility in tight spaces required by specialised tractors of this type, while at the same time not reduce performance and also meeting emission limits. The attractive lines of the Lamborghini Spire F/S/V Stage V also respond to the functional needs of these machines, ensuring an unobstructed view ahead of and to the sides of the tractor and the extraordinary agility needed for manoeuvring between narrowly spaced rows without coming into contact with vines and trellises.

Engine

Power and maximum efficiency under a compact hood.

The modern FARMotion 35 (3-cylinder) and 45 (4-cylinder) engines for the Lamborghini Spire F/S/V Stage V are electronically controlled turbo intercooled engines with power ratings from 91 to 116 HP (67 to 85 kW). The use of the latest emission control solutions ensures that the tractors comply with the most stringent international regulations, thanks to a pool of exhaust gas treatment systems such as externally cooled EGR, DOC and DPF and the SCR system based on AdBlue injections, to cut NOx. The careful layout of all these elements has made it possible to locate everything without affecting the overall dimensions of the tractor. FARMotion 35 and 45 can now run with alternative fuels, being officially certified for HVO (Hydrotreated Vegetable Oil).

Transmission

Transmissions for every operational requirement.

First of all, you can opt for the new mechanical 4-speed gearbox, which can be enhanced with the mechanical underdrive to double the number of forward speeds. The underdrive function is also available on the 30+15 5-speed transmission. The underdrive engages mechanically via an ergonomic control integrated into the shuttle lever and guarantees a minimum creeper speed of just 170 m/h (Spire V). Another feature introduced with the Spire F/S/V Stage V is the Hi-Lo transmission with two Powershift speeds. Lastly, there is the famous 45+45 transmission, with 5 ground speed gears and 3 Powershift speeds, which represents excellence among specialised tractor





operates in both forward and reverse gears, allowing precise speed control even when manoeuvring at the end of the field or loading pallets with the rear forklift. All 5-speed transmissions, from 15+15 to 45+45, feature the OverSpeed function, which reaches 40 km/h at economical engine speed. The Spire F/S/Vs with hydraulic shuttle are equipped with the exclusive SenseClutch function - which allows the aggressiveness of the shuttle during direction changes to be adjusted - and Stop&Go: when activated, the driver can stop and restart the tractor by simply pressing and releasing the brake pedals without having to operate the clutch pedal.

transmissions. The Powershift of the Spire F/S/V

PTO 3

PTO: customised installation.

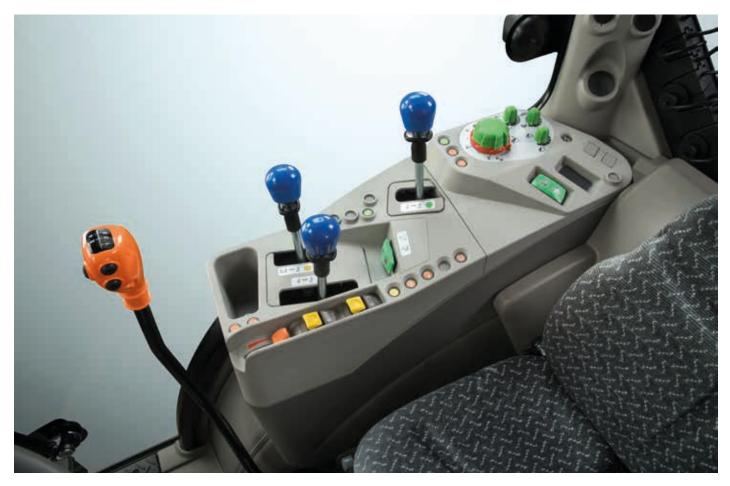
The PTO of the Spire F/S/V can be configured according to different operational needs: the 540 rpm and 540ECO are standard, while the 1000 rpm or ground speed PTO can be added upon request, selectable either with an external control or a practical control in the cab. You can choose between a fixed or a practical interchangeable shaft. On the Spire F also between mechanical engagement or electro-hydraulic engagement. In the first case the PTO is engaged by means of the mechanical lever that controls the PTO clutch, so the driver can directly modulate the PTO engagement. This system is useful when tractors are used with high inertia implements (stone crushers or blowers with large fans). On the other hand the PTO with electro-hydraulic engagement can be easily and conveniently engaged using a special switch. Spire F/S/V also features Auto PTO mode, which automatically engages and disengages depending on the position of the implement connected to the 3-point hitch; other options on the Spire F/S/V include a 1000 rpm front PTO.



Top hydraulics configurability.

Specialised orchard and vineyard tractors are required to carry out work that is very different from that carried out by conventional tractors: modern vineyard equipment requires high hydraulic power and a large number of hydraulic connections, both at the rear and central positions. On the Lamborghini Spire F/S/V Stage V, a state-of-the-art hydraulic system has been installed, based on a single or dual tandem pump with flow rates up to 68 l/min, to effectively meet all possible hydraulic requirements. In any case, there is always an independent pump dedicated to steering - with a flow rate of up to 40 l/min - for smooth steering in all conditions. At the rear, up to 3 mechanical double-action spool valves are available, while - for cab models - different hydraulic configurations are available in the mid mounted position: 2 to 5-ways duplicated from the rear and a free return. The spool valves of Spire F/S/V Stage V can be controlled by single levers or by the exclusive cross lever, which allows the operator to control 4 hydraulic ways while keeping his hand on a single control. The functionality and operational quality of the Lamborghini Spire F/S/V can also be clearly seen when working with the rear forklift. The rear lift of Spire F/S/V is always electronically controlled and has a lifting capacity of 3130 kg (2600 kg on Spire S and V). This can be increased to 3940 kg with additional auxiliary cylinders. On the outside, the convenient switch on the rear of the machine allows the rear attachments to be easily hooked up with precise and progressive movements of the arms, the lowering speed of it can be adjusted via a dial. The optional front lift has a lifting capacity of up to 1500 kg: it was specially designed by Lamborghini Trattori for this type of tractor and is therefore fully integrated with the front chassis of the Spire F/S/V. When not in use, the lower link arms of the lift can be folded to minimise the overall length of the machine.





Comfort, stability and safety.

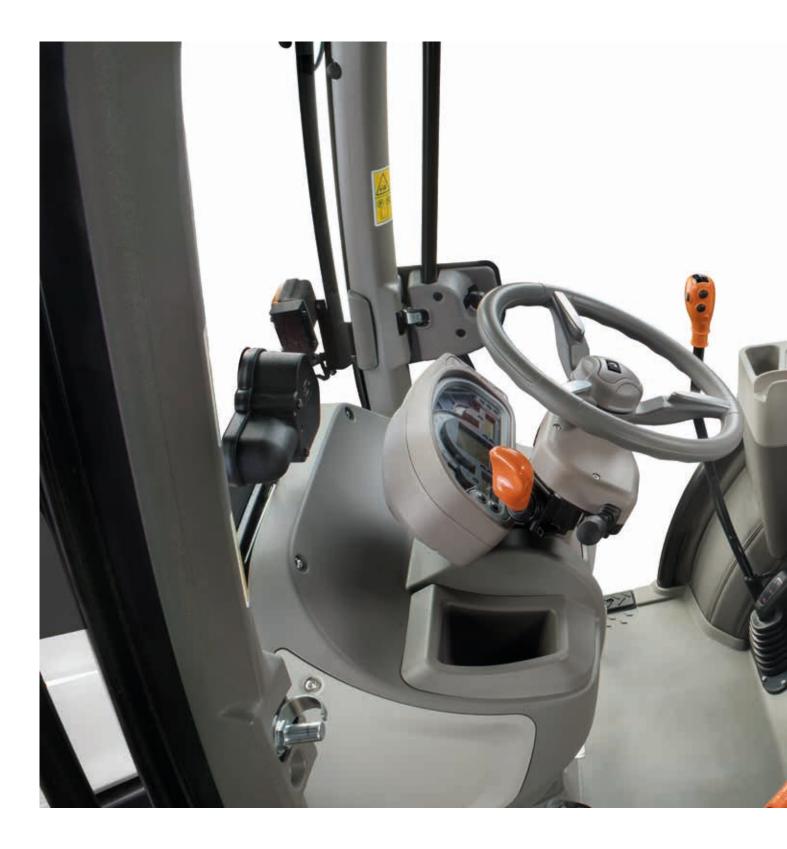
The front axle of the Spire F/S/V, which is specially designed for specialised tractors, is available in several variants depending on operating requirements. Upon request, a front axle with independent front wheel suspension can be fitted on all models. This exclusive technology allows for independent vertical travel of each front wheel. This provides maximum suspension in all situations, integrating the functions of roll

stabilisation when cornering (Anti-Roll) and Anti-Dive, increasing braking safety. Regardless of the type of front axle - fixed or suspended - brakes on all four wheels are standard, as is the 100% differential lock. The SDD system which halves the number of steering wheel turns required to make a complete turn is available upon request on cab models as is the Auto 4WD system, which automatically engages and disengages 4-wheel drive according to forward speed and steering angle.



New cab: the tunnel disappears even with mechanical and Powershift transmissions.

The brand new cab of the Lamborghini Spire F/S/V Stage V has been completely re-developed to improve equipment, operational functionality and comfort during travel and work. But, above all, it is a safe environment in which the driver can work in a protected and risk-free manner. All models are equipped as standard with a suspension system based on 4 Hydro Silent-Blocks, ensuring an effective reduction in vibrations transmitted to the driver. Thanks to the absence of a central tunnel, the cab of the Spire F/S/V has a completely flat floor, providing the driver with optimal legroom, even with the narrowest



cab frame (Spire V). In addition, the absence of any steps inside the cab provides extremely easy access to the driver's seat. The cab of the new Lamborghini Spire F/S/V has been redesigned not only for operating comfort, but also and above all for on-board safety. The Cat.4 filtration system, available as an option, acts on both air filtration and cab pressurisation, guaranteeing the protection of the driver when carrying out phytosanitary treatments.



8

Precision is the basic prerequisite for productivity.

The tractors of the Spire F/S/V family offer classbeating technology, letting you get on with your work with even more intelligent solutions. The tractors may be equipped as an option with the most advanced and sophisticated telemetry systems. The connectivity solutions offered by Lamborghini Trattori make interaction between the office and machinery even simpler. The new SDF Fleet Management suite puts the user in total control of the new Spire F/S/V. The application lets the owner keep track of the position of the tractor in real time, wherever it is. SDF Fleet Management can also be used as an effective tool for planning maintenance, by making use of its notification functions, and for acquiring data relative to performance and fuel consumption. With the SDF Fleet Management application, dealers can always assist drivers in case of any upcoming issues that may occur. This reduces downtime and increases operation reliability of customer's machine.

SDF Fleet Management

With the new SDF Fleet Management application, SDF offers customisable solutions for the real-time management of key data concerning the operation of the machine. Our clients benefit significantly from being in total control of their machines and from the ability to manage a host of vital data, such as tracking data relative to activities. The SDF Fleet Management suite of applications is the centralised control interface for analysing telemetry data from Lamborghini Trattori machines. Tractor data is transmitted in real time over a mobile internet connection to the application, which allows users to analyse, monitor and even optimise the use of their machinery. The "map" view shows the location and status of machines or an entire fleet, and can also display historical data. On request, you can set up virtual fences to receive warnings if a machine leaves the area. Error messages may be forwarded to the technical support team of the dealership, and used to predict failure and reduce unnecessary machine down time.

		SPIRE F							
TECHNICAL DATA	_	90	95	100	105	115			
ENGINE									
Model		FARMotion 35	FARMotion 45	FARMotion 35	FARM	otion 45			
Emission level				Stage V					
Aspiration				Turbo Intercooler					
Injection @ pressure	Type nº/cc	3/2887		Common Rail@ 2000 ba 3/2887		20.40			
Cylinder/Displacement Max. power (ECE R120)	kW/HP	67/91	4/3849 70/95	75/102	78/106	3849 85/116			
Power at rated engine speed (ECE R120)	kW/HP	63.5/86	66.4/90	71.1/97	74/101	80.6/110			
Max torque @ 1400 rpm	Nm	372	389	417	433	472			
Fuel tank capacity (with front lift/PTO)	1			81 (61)		1			
XL Fuel tank capacity (with front lift/PTO)	I			100 (80)					
AdBlue tank capacity				13					
TRANSMISSION - MECHANICAL SHUTTLE	r					·			
Number of speeds - 4 gears transmission		12+12	or 24+12 (with mechar	ical splitter) or 24+24 (v	vith Hi-Lo 2-Powershi	ft steps)			
Max. speed - 4 gears transmission	km/h			40					
Number of speeds - 5 gears transmission	lung (la	15+15 or 30+15 (with mechanical splitter) or 30+30 (with Hi-Lo 2-Powershift steps) or 45+45 (with HML 3-Powershift steps)							
Max. speed - 5 gears transmission TRANSMISSION - POWERSHUTTLE	km/h			40 ECO*					
Number of speeds - 5 gears transmission		15+15 or	30+30 (with Hi-Lo 2 D	owershift steps) or 45+4	5 (with HML 3-Doword	shift stens]			
Max. speed - 5 gears transmission	km/h	10.10.01		40 ECO*	S (WIGH THIE OFFOWER:	sre ocopoj			
PTO									
PTO speeds			540/5	540ECO or 540/540ECO	/1000				
Groundspeed PTO									
Front PTO 1000									
LIFT									
Electronic rear lift				•					
Rear lift capacity (STD/OPT)	kg	3130/3940							
Hydraulic right tie rod and stabilisers									
Front lift (1500 kg) HYDRAULICS				U					
Open centre hydraulic system (STD)	l/min			56					
Open centre hydraulic system with double pump									
(OPT)	l/min			68					
Rear spool valves [STD/OPT]	n°			2/3					
Flow regulator									
Rear free return									
Mid-mounted hydraulic ways - duplicated from rear [OPT]	n° of ways			2/4/5					
Mid-mounted free return	ways			0					
BRAKES	<u> </u>								
4 wheel braking									
Hydraulic trailer brake									
FRONT AXLE									
Electrohydraulic engagement for 4WD and Diff.Lock				•					
Auto 4WD									
Independent steering pump									
Steering Double Displacement (SDD)									
INDEPENDENT FRONT SUSPENDED AXLE (OPT) Adaptive-Damping, Active Self-Levelling functions				-					
Adaptive-Damping, Active Self-Levelling functions Anti-Dive, Anti-Roll functions									
Differential Traction Control (DTC)									
CAB									
Flat floor									
Adjustable steering column									
Suspended on Hydro Silent-Block									
Cat.4 filtration system		0							
Liftable rear top roof									
Up to 6x LED working lights									
Bluetooth Radio		<u>_</u>							
CTM (EU) DIMENSIONS AND WEIGHTS									
With front tyre	Size			300/70 R20					
With rear tyre	Size			420/70 R28					
Wheelbase	mm	2044	2174	2044	2	174			
Max. length	mm	3670	3800	3670		800			
Total height - CAB	mm	2520							
Height at bonnet	mm			1475					
Width	mm			1624					
Weight - CAB	kg	3290-3880	3515-4105	3290-3880	3515	5-4105			
Total admissible load	kg			5200					

9

TECHNICAL DATA		SPIRE S						
		90	95	100	105	115		
ENGINE			1					
Model		FARMotion 35	FARMotion 45	FARMotion 35	FARM	lotion 45		
Emission level				Stage V				
Aspiration				Turbo Intercooler				
Injection @ pressure	Type	0/0007	1	Common Rail@ 2000 ba		0040		
Cylinder/Displacement	nº/cc kW/HP	3/2887 67/91	4/3849 70/95	3/2887 75/102	78/106	3849 85/116		
Max. power (ECE R120) Power at rated engine speed (ECE R120)	kW/HP	63.5/86	66.4/90	71.1/97	74/101	80.6/110		
Max torque @ 1400 rpm	Nm	372	389	417	433	472		
Fuel tank capacity (with front lift/PTO)		J/2		75 (55)	400	472		
XL Fuel tank capacity (with front lift/PTO)				100 (80)				
Super narrow mid mounted implements fuel tank				100 (00)				
capacity (with front lift/PTO)		-	73 (53)	-	73	3 (53)		
AdBlue tank capacity	1			13				
TRANSMISSION - MECHANICAL SHUTTLE	, , , , , , , , , , , , , , , , , , ,							
Number of speeds - 4 gears transmission		12+12	or 24+12 (with mechar	nical splitter) or 24+24 (v	vith Hi-Lo 2-Powersh	ift steps)		
Max. speed - 4 gears transmission	km/h			40				
Number of speeds - 5 gears transmission		15+15	or 30+15 (with mechar	nical splitter) or 30+30 (v 15 (with HML 3-Powershi	with Hi-Lo 2-Powersh	ift steps)		
Max. speed - 5 gears transmission	km/h		01 40*4	40 ECO	it stepsj			
TRANSMISSION - POWERSHUTTLE	8111/11			40 200				
Number of speeds - 5 gears transmission	Г Г	15+15 or	30+30 (with Hi-Lo 2-D	owershift steps) or 45+4	5 (with HML 3-Power	shift stens)		
Max. speed - 5 gears transmission	km/h	10.10.01		40 ECO*	ONCE THE DIT OWE			
PTO	,							
PTO speeds			540/	540ECO or 540/540ECO	/1000			
Groundspeed PTO			0,					
Front PTO 1000								
LIFT	•							
Electronic rear lift								
Rear lift capacity (STD)	kg			2600				
Hydraulic right tie rod and stabilisers								
Front lift (1500 kg)								
HYDRAULICS	, , , , , , , , , , , , , , , , , , ,							
Open centre hydraulic system (STD)	l/min			56				
Open centre hydraulic system with double pump (OPT)	l/min			68				
Rear spool valves (STD/OPT)	n°			2/3				
Flow regulator				<u>_</u>				
Rear free return								
Mid-mounted hydraulic ways - duplicated from rear	n° of			-				
(OPT)	ways			2/4/5				
Mid-mounted free return								
BRAKES	, , , , , , , , , , , , , , , , , , ,							
4 wheel braking			-					
Hydraulic trailer brake								
FRONT AXLE	<u>г г</u>							
Electrohydraulic engagement for 4WD and Diff.Lock				-				
Auto 4WD								
Independent steering pump								
Steering Double Displacement (SDD)								
INDEPENDENT FRONT SUSPENDED AXLE (OPT)	Г Г							
Adaptive-Damping, Active Self-Levelling functions								
Anti-Dive, Anti-Roll functions Differential Traction Control (DTC)								
CAB				_				
Flat floor	Г							
Adjustable steering column								
Suspended on Hydro Silent-Block				-				
Cat.4 filtration system		_						
Liftable rear top roof								
Up to 6x LED working lights								
Bluetooth Radio								
CTM (EU)								
DIMENSIONS								
With front tyre	Size			280/70 R18				
With rear tyre	Size			380/70 R28				
Wheelbase	mm	2086	2216	2086	2	2216		
Max. length	mm	3670	3800	3670	3	1800		
Total height - CAB	mm			2495				
Height at bonnet	mm			1475				
Width	mm			1380				
Weight - CAB	kg	3265-3865	3320-3920	3265-3865	332	0-3920		
	kg			5000				

*according to rear tyres size

10

TECHNICAL DATA		SPIRE V							
		90	95	100	105	115			
ENGINE		54514 11 05	54594 vi (5						
Model Emission level		FARMotion 35	FARMotion 45	FARMotion 35	FARM	otion 45			
Aspiration		Stage V Turbo Intercooler							
Injection @ pressure	Туре	Common Rail@ 2000 bar							
Cylinder/Displacement	nº/cc	3/2887	4/3849	3/2887		3849			
Max. power (ECE R120)	kW/HP	67/91	70/95	75/102	78/106	85/116			
Power at rated engine speed (ECE R120)	kW/HP Nm	<u>63.5/86</u> 372	66.4/90 389	71.1/97 417	74/101 433	80.6/110			
Max torque @ 1400 rpm Fuel tank capacity (with front lift/PTO)		3/2	389	75 (55)	433	4/2			
XL Fuel tank capacity (with front lift/PTO)	i	/5 (55) 100 (80)							
AdBlue tank capacity	I			13					
TRANSMISSION - MECHANICAL SHUTTLE									
Number of speeds - 5 gears transmission		15+15	or 30+15 (with mechar or 45+4	ical splitter) or 30+30 (5 (with HML 3-Powersh	with Hi-Lo 2-Powershi ift steps)	ft steps)			
Max. speed - 5 gears transmission	km/h			40					
TRANSMISSION - POWERSHUTTLE	· · ·								
Number of speeds - 5 gears transmission		15+15 or	30+30 (with Hi-Lo 2-Po	wershift steps) or 45+4	15 (with HML 3-Powers	shift steps)			
Max. speed - 5 gears transmission	km/h			40					
PTO PTO			E 40 /		/1000				
PTO speeds Groundspeed PTO			540/5	540ECO or 540/540ECO	1/1000				
Front PTO 1000									
LIFT	<u>ı </u>								
Electronic rear lift									
Rear lift capacity (STD)	kg			2600					
Hydraulic right tie rod and stabilisers									
Front lift (1500 kg)									
HYDRAULICS Open centre hydraulic system (STD)	l/min			56					
Open centre hydraulic system with double pump		56							
(OPT)	l/min	68							
Rear spool valves (STD/OPT)	n°	2/3							
Flow regulator									
Rear free return Mid-mounted hydraulic ways - duplicated from rear	n° of								
(OPT)	ways	2/4/5							
Mid-mounted free return									
BRAKES 4 wheel braking									
Hydraulic trailer brake									
FRONT AXLE	I								
Electrohydraulic engagement for 4WD and Diff.Lock									
Auto 4WD									
Independent steering pump									
Steering Double Displacement (SDD)									
INDEPENDENT FRONT SUSPENDED AXLE (OPT) Adaptive-Damping, Active Self-Levelling functions									
Anti-Dive, Anti-Roll functions									
Differential Traction Control (DTC)		•							
САВ									
Flat floor									
Adjustable steering column Suspended on Hydro Silent-Block									
Suspended on Hydro Silent-Block Cat.4 filtration system				_					
Liftable rear top roof									
Up to 6x LED working lights									
Bluetooth Radio		0							
CTM (EU)									
DIMENSIONS	0:			100/05 010					
With front tyre With rear tyre	Size Size								
With rear tyre Wheelbase	mm	2086	2216	280/85 R24	2	216			
Max. length	mm	3670	3800	3670		800			
Total height - CAB	mm			2395					
Height at bonnet	mm			1440					
Width	mm	1166							
Weight - CAB	kg	3180-3690	3235-3745	3180-3690	3235	5-3745			
Total admissible load	kg			5000					



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