



Spire F/S/V

90 | 95 | 100 | 105 | 115

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.



Mechanical or Powershift transmissions for every operational requirement.

First of all, you can opt for the new mechanical 4-speed ground 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 the new control integrated with the shuttle lever and guarantees a minimum speed of just 240 m/h (210 m/h for the Spire V). Another feature introduced with the Spire F/S/V Stage V is the Hi-Lo transmission with two Powershift speeds. The Hi-Lo variant is available in both 4 and 5 speed transmissions. Lastly, there is the famous 45+45 transmission, with 5 ground speed gears and 3 Powershift speeds, which represents excellence

among specialised tractor transmissions. The Powershift of the Spire F/S/V operates in both forward and reverse gears, allowing precise speed control even when manoeuvring at the end of the field or loading pallets with rear forks. 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 - and Stop&Go to be adjusted: 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.



Top hydraulics and PTO 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 different hydraulic configurations are available at the centre: 2 to 5-ways duplicated from the rear and a free return. The spool valves 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 lift. The rear lift is 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 which 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 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 footprint of the machine.





PTO: customised installation.

The PTO of the Spire F/S/V can be configured according to different operational needs: the 540 rpm and 540 ECO are standard, while the 1000 rpm and ground speed PTO can be added upon request. 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 is standard on the models Spire S/V and an option on Spire F, can be easily and conveniently engaged using a special switch. It also features PTO Auto mode, which automatically engages and disengages depending on the position of the implement connected to the 3-point hitch; other options on the Spire include a 1000 rpm front PTO.



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. 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 as is the Auto4WD 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.



Precision is the basic prerequisite for productivity.

The tractors of the Spire F/S/V family offer class-beating 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.

TECHNICAL DATA		SPIRE F				
		90	95	100	105	115
ENGINE						
Type		FARMotion 35	FARMotion 45	FARMotion 35	FARMotion 45	FARMotion 45
Emission level		Stage V				
Aspiration		Turbo Intercooler				
Injection @ pressure	Type	Common Rail@2.000 bar				
Cylinder / Displacement	n°/cc	3/2887	4/3849	3/2887	4/3849	
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	63.5/86	66.4/90	71.1/97	74/101	80.6/110
Max torque @1.400 rpm	Nm	372	389	417	433	472
Fuel tank capacity (with front lift/PTO)	l	81 (61)	81 (61)	81 (61)	81 (61)	81 (61)
XL Fuel tank capacity (with front lift/PTO)	l	100 (80)	100 (80)	100 (80)	100 (80)	100 (80)
AdBlue tank capacity	l	13	13	13	13	13
TRANSMISSION - MECHANICAL SHUTTLE						
Number of speeds - 4 gears transmission		12+12 or 24+12 (with mechanical splitter) or 24+24 (with HI-LO 2-Powershift steps)				
Max. speed - 4 gears transmission	km/h	40				
Number of speeds - 5 gears transmission		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	km/h	40 ECO*				
TRANSMISSION - POWERSHUTTLE						
Number of speeds - 5 gears transmission		15+15 or 30+30 (with HI-LO 2-Powershift steps) or 45+45 (with HML 3-Powershift steps)				
Max. speed - 5 gears transmission	km/h	40 ECO*				
PTO						
PTO speeds		540/540E or 540/540E/1000				
Groundspeed PTO		□	□	□	□	□
Front PTO 1000		□	□	□	□	□
LIFT						
Electronic rear lift		■	■	■	■	■
Rear lift capacity (STD/OPT)	kg	3130/3940	3130/3940	3130/3940	3130/3940	3130/3940
Hydraulic right tie rod and stabilisers		□	□	□	□	□
Front lift (1.500 kg)		□	□	□	□	□
HYDRAULICS						
Open centre hydraulic system (STD)	l/min	56	56	56	56	56
Open centre hydraulic system with double pump (OPT)	l/min	68	68	68	68	68
Rear spool valves (std/opt)	n°	2/3	2/3	2/3	2/3	2/3
Flow regulator		□	□	□	□	□
Rear free return		■	■	■	■	■
Mid-mounted hydraulic ways - duplicated from rear (OPT)	n° of ways	2/4/5	2/4/5	2/4/5	2/4/5	2/4/5
Mid-mounted free return		□	□	□	□	□
BRAKES						
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		■	■	■	■	■
Anti-Dive, Anti-Roll functions		■	■	■	■	■
Differential Traction Control (DTC)		■	■	■	■	■
CAB						
Flat floor		■	■	■	■	■
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		□	□	□	□	□
DIMENSIONS						
With front tyre	Size	300/70 R20	300/70 R20	300/70 R20	300/70 R20	300/70 R20
With rear tyre	Size	420/70 R28	420/70 R28	420/70 R28	420/70 R28	420/70 R28
Wheelbase	mm	2044	2174	2044	2174	2174
Max. length	mm	3670	3800	3670	3800	3800
Total height - CAB	mm	2520	2520	2520	2520	2520
Height at bonnet	mm	1475	1475	1475	1475	1475
Width	mm	1624	1624	1624	1624	1624
Weight - CAB	kg	3290-3880	3515-4105	3290-3880	3515-4105	3515-4105
Total admissible load	kg	5200	5200	5200	5200	5200

* engine rpm at max. speed varies according to rear tyre size

STD ■ OPT □ Not available -

TECHNICAL DATA		SPIRE S				
		90	95	100	105	115
ENGINE						
Type		FARMotion 35	FARMotion 45	FARMotion 35	FARMotion 45	FARMotion 45
Emission level		Stage V				
Aspiration		Turbo Intercooler				
Injection @ pressure	Type	Common Rail@2.000 bar				
Cylinder / Displacement	n°/cc	3/2887	4/3849	3/2887	4/3849	
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	63.5/86	66.4/90	71.1/97	74/101	80.6/110
Max torque @1.400 rpm	Nm	372	389	417	433	472
Fuel tank capacity (with front lift/PTO)	l	75 (55)	75 (55)	75 (55)	75 (55)	75 (55)
XL Fuel tank capacity (with front lift/PTO)	l	100 (80)	100 (80)	100 (80)	100 (80)	100 (80)
AdBlue tank capacity	l	13	13	13	13	13
TRANSMISSION - MECHANICAL SHUTTLE						
Number of speeds - 4 gears transmission		12+12 or 24+12 (with mechanical splitter) or 24+24 (with HI-LO 2-Powershift steps)				
Max. speed - 4 gears transmission	km/h	40				
Number of speeds - 5 gears transmission		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	km/h	40 ECO				
TRANSMISSION - POWERSHUTTLE						
Number of speeds - 5 gears transmission		15+15 or 30+30 (with HI-LO 2-Powershift steps) or 45+45 (with HML 3-Powershift steps)				
Max. speed - 5 gears transmission	km/h	40 ECO*				
PTO						
PTO speeds		540/540E or 540/540E/1000				
Groundspeed PTO		□	□	□	□	□
Front PTO 1000		□	□	□	□	□
LIFT						
Electronic rear lift		■	■	■	■	■
Rear lift capacity (STD)	kg	2600	2600	2600	2600	2600
Hydraulic right tie rod and stabilisers		□	□	□	□	□
Front lift (1.500 kg)		□	□	□	□	□
HYDRAULICS						
Open centre hydraulic system (STD)	l/min	56	56	56	56	56
Open centre hydraulic system with double pump (OPT)	l/min	68	68	68	68	68
Rear spool valves (std/opt)	n°	2/3	2/3	2/3	2/3	2/3
Flow regulator		□	□	□	□	□
Rear free return		■	■	■	■	■
Mid-mounted hydraulic ways - duplicated from rear (OPT)	n° of ways	2/4/5	2/4/5	2/4/5	2/4/5	2/4/5
Mid-mounted free return		□	□	□	□	□
BRAKES						
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-Leveling 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		□	□	□	□	□
Liftable rear top roof		□	□	□	□	□
Up to 6x LED working lights		□	□	□	□	□
Bluetooth Radio		□	□	□	□	□
CTM		□	□	□	□	□
DIMENSIONS						
With front tyre	Size	280/70 R18	280/70 R18	280/70 R18	280/70 R18	280/70 R18
With rear tyre	Size	380/70 R28	380/70 R28	380/70 R28	380/70 R28	380/70 R28
Wheelbase	mm	2086	2216	2086	2216	2216
Max. length	mm	3670	3800	3670	3800	3800
Total height - CAB	mm	2495	2495	2495	2495	2495
Height at bonnet	mm	1475	1475	1475	1475	1475
Width	mm	1380	1380	1380	1380	1380
Weight - CAB	kg	3265-3865	3320-3920	3265-3865	3320-3920	3320-3920
Total admissible load	kg	5000	5000	5000	5000	5000

* engine rpm at max. speed varies according to rear tyre size

STD ■ OPT □ Not available -


TECHNICAL DATA		SPIRE V				
		90	95	100	105	115
ENGINE						
Type		FARMotion 35	FARMotion 45	FARMotion 35	FARMotion 45	FARMotion 45
Emission level		Stage V				
Aspiration		Turbo Intercooler				
Injection @ pressure	Type	Common Rail@2.000 bar				
Cylinder / Displacement	n°/cc	3/2887	4/3849	3/2887	4/3849	
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	63.5/86	66.4/90	71.1/97	74/101	80.6/110
Max torque @1.400 rpm	Nm	372	389	417	433	472
Fuel tank capacity (with front lift/PTO)	l	75 (55)	75 (55)	75 (55)	75 (55)	75 (55)
XL Fuel tank capacity (with front lift/PTO)	l	100 (80)	100 (80)	100 (80)	100 (80)	100 (80)
AdBlue tank capacity	l	13	13	13	13	13
TRANSMISSION - MECHANICAL SHUTTLE						
Number of speeds - 5 gears transmission		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	km/h	40				
TRANSMISSION - POWERSHUTTLE						
Number of speeds - 5 gears transmission		15+15 or 30+30 (with HI-LO 2-Powershift steps) or 45+45 (with HML 3-Powershift steps)				
Max. speed - 5 gears transmission	km/h	40				
PTO						
PTO speeds		540/540E or 540/540E/1000				
Groundspeed PTO		□	□	□	□	□
Front PTO 1000		□	□	□	□	□
LIFT						
Electronic rear lift		■	■	■	■	■
Rear lift capacity (STD)	kg	2600	2600	2600	2600	2600
Hydraulic right tie rod and stabilisers		□	□	□	□	□
Front lift (1.500 kg)		□	□	□	□	□
HYDRAULICS						
Open centre hydraulic system (STD)	l/min	56	56	56	56	56
Open centre hydraulic system with double pump (OPT)	l/min	68	68	68	68	68
Rear spool valves (std/opt)	n°	2/3	2/3	2/3	2/3	2/3
Flow regulator		□	□	□	□	□
Rear free return		■	■	■	■	■
Mid-mounted hydraulic ways - duplicated from rear (OPT)	n° of ways	2/4/5	2/4/5	2/4/5	2/4/5	2/4/5
Mid-mounted free return		□	□	□	□	□
BRAKES						
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		■	■	■	■	■
Anti-Dive, Anti-Roll functions		■	■	■	■	■
Differential Traction Control (DTC)		■	■	■	■	■
CAB						
Flat floor		■	■	■	■	■
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		□	□	□	□	□
DIMENSIONS						
With front tyre	Size	180/95 R16	180/95 R16	180/95 R16	180/95 R16	180/95 R16
With rear tyre	Size	280/85 R24	280/85 R24	280/85 R24	280/85 R24	280/85 R24
Wheelbase	mm	2086	2216	2086	2216	2216
Max. length	mm	3670	3800	3670	3800	3800
Total height - CAB	mm	2395	2395	2395	2395	2395
Height at bonnet	mm	1440	1440	1440	1440	1440
Width	mm	1166	1166	1166	1166	1166
Weight - CAB	kg	3180-3690	3235-3745	3180-3690	3235-3745	3235-3745
Total admissible load	kg	5000	5000	5000	5000	5000

* engine rpm at max speed varies according to rear tyre size

STD ■ OPT □ Not available -

www.lamborghini-tractors.com



Lamborghini Trattori is a brand of  SDF

